

World Radio, December 17, 1937

WORLD-RADIO 3^D

CHRISTMAS

NUMBER



KEELING



HAVE you got your "Christmas Pie"? This grand Christmas Annual is fast selling out, and you must hurry or you will be too late for a copy.

All profits from the sale of "Christmas Pie" go to King George's Jubilee Trust, and it is only through the generosity of nearly 50 of Britain's greatest authors and artists that it has been possible to make this splendid Annual available for only sixpence. There are 112 pages in "Christmas Pie"—many complete stories, scores and scores of illustrations and joke drawings, whole-page plates in colour—in fact, something to entertain every member of the family.

The authors and artists include such celebrities as :—James Hilton, Lord Dunsany, W. Somerset Maugham, Louis Golding, Gilbert Frankau, Denis Mackail, Storm Jameson, Clemence Dane, Joan Conquest, Margery Allingham, Dennis Wheatley, Lawson Wood, Illingworth, Gilbert Wilkinson, G. E. Studdy, A. C. Barrett, J. Dewar Mills, Colin Orme, Clive Upton. Get "Christmas Pie" at once, on sale at Newsagents and Booksellers, sixpence.



Christmas Eve in the Homestead: a scene in the Black Forest

A MERRY CHRISTMAS

*The Editor and
his staff wish
all readers of
WORLD-RADIO
a happy
Christmas and
good listening*

CONTENTS

CHRISTMAS IN THE WORLD OF RADIO
 SOME MORE "LOST" FINDS. By Ashley Sterne
 THE BELLS OF BETHLEHEM (pictures)
 THE MAGIC BOX IN ASIA. By Sultan Mohamed Khan
 VOICES FROM THE CONTINENT
 THE MYSTERY OF THE BEAM. By C. G. Philp
 WHY I AM A SHORT-WAVE "FAN." By Davy Burnaby
 SOLVING THE GIFT PROBLEM. By A. W. Beatt
 A NEW RADIO SET FOR CHRISTMAS. By Harley Carter
 THE ENGINEER WHO HATED JAZZ. By "Decibel"
 CHRISTMAS "DIALLING" ON THE SHORT WAVES, with
 "Onda Corta"
 THE ROMANCES OF GREAT MUSICIANS: GLUCK
 LEAVES FROM MY LOG

CHRISTMAS IN THE

Every community observes Christmas in its own traditional way, and below "World-Radio" correspondents describe the preparations that have been made in many countries with which listeners are familiar



A familiar face in a seasonable frame—
Miss Kate Smith, the U.S.A. radio star

AUSTRIA

ON Christmas Eve, ten of the happiest children in Austria will be the winners of prizes for their answers to the riddles posed at "Nikolo," December 6, in the "Toy Drawer Hour" conducted by Herr Friedrich Schank. The winners will receive these prizes before the "Juvenile Stage" performance, and this will be a jovial broadcast. A great effort has been made this year to reduce the growing preponderance of "Krampus" (the crimson fiend with hoofs and trident) over the dear old Bishop Nicholas, who should be the dominant feature of "Nikolo" (St. Nicholas's Day), and is, of course, the historical progenitor of Father Christmas. Confectioners were individually asked by priests and devout women throughout the country not to fill their windows with hideous "Krampuses" of sugar and pastry, but to make benevolent St. Nicholas the central figure.

THE CHANCELLOR'S TALK

This new idealisation of "Nikolo" was brought out strongly in the children's competition, and for the first time in Austria, perhaps, Ravag has succeeded in linking up the "Father Christmas" idea with Christmas celebrations. But, of course, the "Christkind," and the little tinkling bell which invites the children to the lighted Christmas tree, are features of the Austrian Christmas which must ever endure.

Ravag has had extraordinary difficulty in composing its Christmas programme this year because Christmas Day falls on Saturday. The programme of Christmas Eve must, of course, be serious in Austria, with much grave music and speeches. The Chancellor, Dr. Kurt von Schuschnigg, will give his usual talk for transmission abroad, and there are now many hundreds of Austrian girls in domestic service in England who will listen eagerly to every word. The trumpeters will play their fanfare from the spire of St. Stephen's Cathedral at 10 p.m., preceded by the spoken and sung greetings to lonely Austrians at home and abroad, without which no Ravag Christmas Eve programme would be complete.

The deeply religious aspects of Christmas Eve will be accentuated more than ever before. The only secular music in the evening will be some of the songs in the musical programme broadcast from the Tyrol.

On Christmas Day, after the relay of the Vatican concert, there will be merry music most of the evening.

BELGIUM

IN Belgium, as in most European countries, Christmas is essentially a time for family gatherings, in which the radio plays an increasingly important part. The broadcasting programmes are all of a character appropriate to the season of peace and goodwill.

On Thursday Brussels 1 will broadcast Bach's *Christmas Oratorio*; and at midnight on Christmas Eve the same station will play the midnight Mass from the famous Benedictine Abbey of St. André, at Lophen-lez-Bruges. The Christmas Day programmes include the Vatican concert relay and the Berlioz oratorio *L'Enfance du Christ*.

CZECHOSLOVAKIA

THE Prague Christmas programmes will be mainly interesting for their folklore features. There is an old bagpipe tradition still alive in the country, and the Moravian bagpipers will play old melodies in a Christmas play on December 24 at 3.20 p.m., and the Prague station will transmit bagpipe music from London on December 28.

The Christmas Eve programme will transport the listeners at 7 p.m. to a herdsman's cottage in the Moravian mountains, where interesting old folk songs will be interpreted by people from the mountains.

DENMARK

THE Danish programmes do homage to one of Denmark's greatest and best-known musicians and composers, Fini Henriques, who

celebrates his 70th birthday on December 20. On that occasion Fini Henriques's light opera *Canta* will be broadcast on Sunday, December 19, from 7.15 to 8.15 p.m. G.M.T. *Canta* is a musical fairy-tale, based on the story of the old instrument with one string which, when struck, would tell whether a young girl was in love or not.

As usual, certain evenings will be set apart for the broadcasting of personal Christmas wishes to relatives living in Greenland, and for greetings to The Faeroes. On December 23, a radio play, *Christmas in Greenland*, will be broadcast to give Danish listeners an impression of Christmas celebrations in that far-away colony. On Christmas Eve, from 5 to 6 p.m. a greeting will be broadcast to all Danish sailors at sea. From 6 to 7 p.m. Denmark and Sweden will broadcast a common programme of Danish and Swedish Christmas hymns, followed by the chimes of the bells of Our Saviour's Church in Copenhagen. It will be followed by a special children's Christmas programme—Christmas carols sung by choirs and soloists, and recitals. This ends at 8.30, with the chimes of one of the cathedral bells.

On Christmas Day there will be an organ recital from the historic organ at Fredriksborg Castle, and, later in the evening, a Hans Andersen programme. This will consist of a radio cameo of the life and works of the great Danish poet. It begins with a sketch depicting the poet in a modern family who do not understand his fairy-tales. Then follow some scenes, based on his Memoirs, showing how events in the life of the poet have been turned into fairy-tales. Hans Andersen, portrayed by a well-known actor, will be the narrator, and his fairy-tales will slip into his talk as little radio sketches.

FRANCE

“REVEILLON” parties in hotels and restaurants, generally organised by the proprietors, are popular events on Christmas Eve and New Year's Eve, and they attract festive crowds. The Christmas programmes reflect this side of French life, and stations like Radio-Paris, Paris (PTT), Bordeaux-Sud-Ouest, and Radio-Lyons maintain a concert of dance music until two or three o'clock in the morning.

The religious side of Christmas is by no means forgotten, and midnight and Pontifical masses from famous cathedrals will be broadcast from Bordeaux-Sud-Ouest, Radio-Lyons, Radio-Normandie, and other private stations. Religious transmissions from State stations are not accorded a great deal of time, and have to be divided amongst different religions. The midnight programme of Radio-Paris on Christmas Eve from Strasbourg Cathedral promises to be good, as do also the mystery and pastoral plays of this and other stations.

France also has its Christmas carols, and these are not forgotten. Those to be given by Bordeaux-Sud-Ouest at 10.15 p.m. on Christmas Eve are classified under the different provinces—Provence, Beaujolais, Alsace, Brittany, etc. Charles Dickens seems to be definitely established in the French Christmas, and *L'Étrange Nuit de Noël de Mr. Scrooge* (which won the prize for Broadcast Drama during the year) will



A toy-bedecked "Pyramid" which takes the place of the traditional Christmas Tree in certain parts of Germany

WORLD OF RADIO

be given by Radio-Paris at 4 p.m. on Christmas afternoon, with Denis d'Inès as Scrooge, and Georges Colin as the Ghost; and at 8.30 p.m. on the same day Lille, Toulouse, and Limoges broadcast an adaptation from Dickens entitled "Les Apparitions de Noël."

GERMANY

DURING the past few years Christmas fairs and markets have been revived throughout Germany, thus giving colour to drab streets and reviving the old spirit of Christmas enjoyment which almost vanished from the public thoroughfares during the depression period.

The traditional Christmas celebrations have been amplified by Winter Solstice Fires, in honour of the old Teutonic conception of the feast.

From a political point of view, and for all Germans at home and abroad, the broadcast of the annual Christmas address by the Deputy



The young King Peter of Yugoslavia receiving the Yule log in accordance with time-honoured custom

Führer, Herr Hess, at 7 p.m. on December 24, to be broadcast from all stations, will be the most important event. The remainder of the programmes are grouped round this.

One or two characteristic transmissions will give listeners an idea of the German Christmas. Under the title: "Germany, your Name Shall Burn in us," Danzig and Frankfurt will broadcast from the Winter Solstice Celebrations on the "Long Market," in Danzig, at 9.30 p.m. on December 21. On December 24, at 5.30 p.m., "In the Church of Gemiécourt," a Christmas experience at the front, will be given from Königsberg. Munich, on December 20, at 8.20 p.m., will transmit "There stands a flaming fire in deep night," a cantata for the Winter Solstice, by Herbert Böhme, music by Erich Lauer.

If the earlier part of the week represents the older aspect of Christmas, the latter part reflects the festival in the customary manner.

Nearly all the German stations have arranged programmes of bells to "ring in" Christmas. At 5 p.m. on December 24 Deutschlandsender will transmit chimes from churches throughout the country. In the intervals, old Christmas songs will lead up to the Station Intendant's greeting at 6 p.m. At 7 p.m. on December 24, Frankfurt offers "Home Bells Ring in Christmas," and Hamburg, at 5 p.m., has "Ringing in Christmas." Leipzig has decided to choose the large bells of the better-known German cathedrals to ring in Christmas. Their programme starts at 8 p.m. Cologne will "ring in" Christmas with the bells of the oldest churches in the region.

"SCROOGE" BECOMES TEUTONIC

"The Transformation of Old Scrooge" is the title of Saarbrücken's programme at 5 p.m. on December 25. Another English item will be Frankfurt's broadcast at 7 p.m. of a German-English concert, Part One of which will be conducted by Frickhoeffler, and the second part by Leigh Henry, of London.

Other "star" selections from the German stations' fare this year are: Stuttgart: "Winter," from *The Seasons*, on December 22, and at 6 p.m. on December 25, *The Magic Flute*. Munich: 9.40 p.m. on December 24, "Christmas Eve" relay from Egern in the Bavarian Alps (Dr. Feldhütter). This is a revival of a Christmas Legend with music.

Cologne, Danzig, Leipzig: December 25, at 6.10 p.m., *Tannhäuser*.

Berlin, after giving Christmas songs at 5 p.m. on December 24, turns to "Happy End" at 9 p.m., when Waldemar Hass and his band and the famous duet, Kati Rauch and Charlotte Töpfer, will cheer listeners up.

THE KING'S CHRISTMAS BROADCAST

His Majesty the King has consented to broadcast a message to the Empire on Christmas Day at 3 p.m.

Thus the customary Christmas broadcast by the King, which was inaugurated by King George V in 1932, will be continued.

HOLLAND

HOLLAND observes the feast of St. Nicholas so enthusiastically, and later sits up all night to keep "Old and New," that there is little energy available for social festivities at Christmas. Between St. Nicholas and the New Year, however, Christmas songs and stories are constantly "on the air," and during the week before December 25 they reach the ether *via* the two Dutch stations.



The champion bagpipes player of Czechoslovakia



Father Christmas (actually a Finnish farmer) with his reindeer-drawn sleigh

This year an English atmosphere is being created by means of a radio play based on Dickens's *Little Dorrit* and a description by the Rev. J. van Dorp, Pastor at the Dutch Church in Austin Friars, of "Christmas Preparations and Celebrations in England."

The same evening (December 23), the Christmas songs of Peter Cornelius will be sung. Christmas Day itself and the following days will be largely given over to purely religious observances broadcast from the studios or relayed from the churches.

HUNGARY

A PERFORMANCE by the Hungarian Society for Popular Art, which will present Hungarian peasant Christmas customs, is to be the central feature—an hour and a half—of the Budapest Christmas programme, which takes place on December 27. Most important among the items to be presented is a Nativity play the origin of which goes back to the Middle Ages. Seven boys and girls, aged 14 to 16, make up the cast of King Herod, Joseph, the Messenger, Two Angels, and Two Shepherds. The Messenger carries a staff which is covered with brightly-coloured paper, and with tiny bells attached to the top. The "Bethlehem" is a light wooden structure, made by the children, which is decorated with brightly-coloured paper. A candle burns inside it, and lights up the sacred pictures on the walls, the carved wooden animals around the stall, and the Child in the manger.

The messenger goes in front of the procession, and, in rhymes, asks permission for his party to enter the house. If they are welcomed all but Joseph go in, and the model of "Bethlehem" is put down on two chairs. The two shepherds lie down in front of it and fall asleep. Then the play concentrates upon Joseph's endeavours to make Herod relent, so that he may tell the news of the Saviour's birth.

(Continued on page 4)

IMPORTANT NOTICE

The next issue of **WORLD-RADIO** will be on sale at all newsagents on Thursday, Dec. 23



The towers of Lemgo, the bells of which will be heard from Deutschlandsender at 5 p.m. on Christmas Eve

IRISH FREE STATE

AS a preliminary to Christmas, Athlone has arranged a broadcast at 6.20 p.m. on Tuesday designed to instruct listeners in games and entertainments with which to enliven the family parties. This will be followed at 7.45 by a Christmas play entitled *The Closed Door*, and a selection of carols from all nations at 8.45.

Thursday's programme includes a broadcast description of Christmas scenes entitled "Lights of Dublin" at 7 p.m.; a play, *Candlelight*, at 8.15; and Christmas songs set to old Irish and Scottish music.

At 11 p.m. on Christmas Eve, President de Valera will broadcast a message to the nation; and later the Midnight Mass will be relayed from St. Joseph's Abbey. Athlone will naturally participate in the almost universal relay of the service from the Vatican, after which the President will broadcast seasonable greetings.

ITALY

IN Italy, Christmas is a great religious and family festival, but instead of a Father Christmas, there is a sort of Mother Christmas, known to Italian children as the *Befana*, a kindly old fairy who delivers her presents some ten or twelve days after Christmas—on the eve of the Epiphany, or January 5.

Italian Christmas programmes will include a great deal of dance music and light operatic pieces. A number of new night clubs and dancing resorts have sprung up this year, and some of their dance bands will be broadcast, among them that of the "Florida" cabaret. Rome will have its new ultra-short-wave station on Monte Radio, which is to be used also for television, to broadcast an additional programme, bringing the Rome transmissions up to four.

One of the broadcasting features of Christmas Day will be the concert of sacred music to be transmitted by the Vatican station from 6 to 7 p.m. Don Lorenzo Perosi, member of the Italian Academy and Director of the Sistine Chapel choir, will conduct a number of his own compositions, including parts of the oratorio, *The Universal Judgment*, first performed at the Rome Constanzi Opera House (now the Royal Opera House) in 1904.

At Christmas time and New Year it is customary to hold a number of *veglioni*, which are in the nature of fancy-dress balls at which masks are used. The dances generally take place in the auditorium of some theatre, in which a special floor has been laid.

POLAND

CHILDREN from the Warsaw Municipal Orphanages are being invited by Polskie Radio to a Christmas Eve party to watch the Nativity play, *The Szopka*, and to receive sweets and books. This joyous gathering will be broadcast nationally by Warsaw I at 10.15 a.m., G.M.T. The programme is expected to last about an hour and will include Polish folk songs and music.

On Christmas Day at 9.15 a.m., G.M.T., the Primate of Poland, Cardinal Dr. Hlond, will officiate at a Christmas Day service in the Cathedral Church of Poznan, when the singing of Father Gieburowski's Choir will be broadcast at 9.15 a.m., G.M.T. This choir, one of the most famous in the country, was established by the Cathedral of Poznan in the fifteenth century. The service will be relayed by the National Warsaw I. In the evening, at 10.45 p.m., an old traditional Christmas Night Service will be relayed from an old village wooden church at Powroznik, near Krynica.



She is happy with her Christmas present

SWITZERLAND

AT 7.30 p.m. on Tuesday Sottens is to broadcast the Swiss composer Pierre Maurice's Christmas oratorio, *The Nativity*, from Geneva Cathedral.

On Christmas Day it will be exactly a year since Pierre Maurice passed away at Geneva at the age of sixty-eight, after a life wholly devoted to music.

Born at Allaman, he received his education at Geneva. He began his studies of music by first of all spending a year at Stuttgart. He continued and completed these studies at Paris under such masters as Lavignac, Massenet, Fauré, and others. Towards the end of the century his compositions began to appear and his name to be known in all European cities. Towards the year 1900 Maurice settled at Munich, where he remained until the outbreak of the War. It was during these years that his most important compositions were written. They included operas of the dramatic and the lighter order, symphonic poems and a number of choral works. Switzerland feels justly proud to count among her sons a musician of so rare a talent, and by the transmission of his last composition on Tuesday, broadcasting, too, is paying homage to the memory of a great artist.

U.S.A.

WITH radio furnishing the impalpable link, the President will cause the Christmas-trees in countless American communities and homes to be lighted simultaneously when he performs the ceremony on a small scale in Lafayette Square, outside his official home in Washington, on the afternoon of December 24. The hour is tentatively fixed at 5 p.m., E.S.T. (10 p.m. G.M.T.). After several years' repetition since President Hoover twice officiated at this broadcast ceremony, the procedure is well understood by radio listeners. All who have trimmed a tree stand ready, and upon announcement that Mr. Roosevelt has pressed the button and the tiny fir-tree opposite the White House is aglow with multi-coloured electric bulbs, Christmas-trees all over the United States are similarly "turned on" while the President's greeting is still coming in through the loudspeakers from coast to coast. All three of the major networks usually broadcast this ceremony of the "lighting of the nation's Christmas Tree."

THE NEW YORK TREE

In New York Mayor La Guardia will light an immense tree in City Hall Park, with broadcasting announcers on hand to describe the scene, a feature of which is to be the distribution of presents for the needy. The gifts will include toys which benevolent New York policemen have collected and spent their leisure in refurbishing so that poor children may use them. Radio has helped along the charitable purpose by organising "used toy" programmes, as a result of which many toys have been sent direct to broadcasting studios, whence they are forwarded to the Police Department.

All three networks are preparing special broadcasts for at least a week ahead of Christmas. One of the most interesting promises to be a programme which NBC has arranged at Shafter Camp, near Bakersfield, California. Several hundred men and women who once owned prosperous farms in the so-called Dust Bowl of the Central West live there. Driven from their homes by soil erosion, they have become inhabitants of labour camps in California—the only State in which, thus far, provision has been made for migratory workers who have been forced to move about according to the seasons, harvesting fruit and grain crops. A Christmas visit is to reveal how this cheerful community



A Christmas tableau presented by the children of a village in Eastern Hungary

entertains itself with cowboy songs and folk melodies, played upon much-worn fiddles and wheezy accordions.

CAROLS FROM BOSTON

For a second time the international short-wave station W1XAL, at Boston, will this year take microphones up the slopes of Beacon Hill on Christmas Eve so that overseas listeners can hear the Christmas music of the roving bands of instrumentalists and singers. Annually hundreds of thousands of Bostonians make a pilgrimage to Beacon Hill to join spontaneously in the singing of carols. The old colonial houses which line the streets of the Hill, and surround the famous Louisburg Square on three sides, give an old-world character to the scene, which is further strengthened by the myriads of lighted candles in the windows. The broadcast will last three-quarters of an hour, beginning at 8 p.m., E.S.T. (G.M.T., 1 a.m. Christmas Day), and will be radiated on a frequency of 6.04 megacycles (49.6 m.). Bethlehem has been chosen as subject for the Christmas Eve broadcast in the series from W1XAL entitled: "Behold the City." It will be broadcast at 7.30 p.m., E.S.T.

VARIETY FROM LONDON

Columbia Broadcasting System plans to broadcast carols from Ireland, with possibly a brief



A Silesian settlement in winter's icy grip

YUGOSLAVIA

EVERY year, on Christmas Eve, the garrison of Belgrade drive up to the Royal residence, with music and salvos of shots, to present the King with the traditional *Badnjak*—yule log. He awaits the delegation at the door, and, in accordance with ancient custom, strews grain and nuts, and pours wine over the log as it is carried in. The microphone never misses this seasonal rite, and listeners to Belgrade greatly enjoy it.

In the course of years the yule log and its customs are disappearing from Europe, and the practice of giving free beer to the servants as long as the yule log burnt is gone likewise. To-day Serbia and Bulgaria are the only parts of Europe that still have the real yule log with all its attendant ceremonies. From Slovenia and Croatia—the other parts of Yugoslavia—the yule log has departed.

The ceremonial for the felling and burning of the yule log is different in each part of the country. In some districts a fruit tree is used

instead of the traditional oak tree; some let the log burn for 12 days, from December 24 to January 6. But, in general, the procedure is as follows: the head of the house, accompanied by the male members of the family, sets out long before dawn on the 24th. If it falls on a week-day oxen are taken along to haul back the log; if on a Sunday the men have to choose a smaller tree, as the employment of oxen is frowned upon. Then, the previously-selected tree has to be felled in three strokes of the axe. It must fall to the east, and must on no account catch in the branches of surrounding trees, as otherwise the luck of the house will also have a hitch during the coming year. The tree must be caught before it touches the ground. The remaining stump is covered with cake and grain, and wine is poured over it as a recompense for its sacrifice.

THE SACRED LOG

The felling must be over by the time the sun rises. The men then take the trunk home, where the woman of the house awaits them at the door with more cake, grain, and wine, or *Rakija*. The trunk is stood against the door with the stump upwards to wait till the evening.

When the first stars appear the begloved master—to show his reverence for the holy log, the master of the house invariably wears gloves when handling it—again appears, and carries the log into the house. Here it is lavishly strewn with corn, and the stump smeared with honey. It is carried round the hearth three times and then placed on the fire.

Next the family sit down to dinner, and one or other of them periodically pokes the embers with a branch, and recites various verses as the sparks fly: "So many sparks, so many sheep, money, kids, hens, wheat with big heads, male children, calves, grey pigs, black goats, and, most of all, life and health."

The children watch the log closely, for if one of them succeeds in warning the father when the burning has gone far enough for the log to be on the point of breaking he or she receives a special lucky coin. The head of the family—gloved again—then takes the stump; the ashes are spread over the fields, or sometimes are kept as medicine to be taken against fever; the half-burnt stump is either cut up and made into parts for a plough, or it is kept for the next Christmas when the Christmas fire is kindled with it, thus closing the cycle.



Lionel Barrymore as "Scrooge" in "The Christmas Carol," a radio version of which will be broadcast on the CBS network

greeting from President de Valera, at 6 p.m., E.S.T., on the 24th. On Christmas Day the network expects to bring to the microphone American children who are living abroad—in London, Paris, and Vienna—to describe Christmas in those centres. Earlier in the week CBS will make a visit to a toy factory in Germany, and there is to be, at 3 p.m., E.S.T., on December 20, an English greeting to Americans in the form of a variety programme from London with the title: "Happy Christmas to You!" Featuring the religious side of Christmas observances, the Mutual Broadcasting System has planned to broadcast a Christmas Morning Mass from the Cathedral of St. Augustine, in Des Moines, Iowa, and also many of what are known as candlelight services in New York City.

Eddie Cantor, Kate Smith, and other radio favourites are preparing special Christmas features on their regular programmes. An eagerly expected event at this season is Lionel Barrymore's regular appearance as Scrooge in the radio dramatisation, on CBS, of Dickens's *Christmas Carol*. He is immensely popular in the part.



An outdoor illuminated Christmas tree in Oslo

Voices of the Continent

We print below Christmas messages to listeners in this country from announcers of well-known stations in France, Germany, and Holland

Je remercie WORLD-RADIO, et m'empresse d'accepter la généreuse hospitalité qu'il m'offre pour dire aux auditrices et aux auditeurs de Radio-Paris, aux occasions de Noël et de la nouvelle année, que je forme des vœux pour leur bonheur et leur exprimer ma vive et respectueuse sympathie.

Non sans éprouver quelque regret de ne pouvoir m'adresser directement à eux et le faire mieux et de vive voix par le moyen des ondes.

A WORLD-RADIO ma gratitude, mes souhaits, et ma sympathie.

E. BEN DANOU,
Speaker, Radio-Paris.

* * * *

Chers Auditeurs Anglais,

Nous célébrons Noël en France avec la même ferveur que vous apportez à fêter "Christmas."

Dans chaque foyer les cœurs battent avec un frisson nouveau. Et je songe à tous ceux d'entre vous que je ne connais pas et qui, pourtant, chacun de votre côté, dépensez autour de vous l'énergie rayonnante d'une âme virile. Alors, à vous tous, chers auditeurs connus et inconnus, qui vivez le même temps que moi, que seuls l'espace et les circonstances séparent, et que j'aimerais tant connaître pour le plaisir d'avoir de nouveaux amis, j'adresse l'expression de mon affectueuse sympathie.

ANDRE GORIUS,
Speaker de "Radio-Paris."

* * * *

Noël! la plus belle fête de l'année, fête des petits et des grands, que l'on célèbre avec ferveur dans la douce intimité du "home," pendant que se déroule le programme d'une émission exceptionnelle.

Le speaker du Poste Parisien est heureux de profiter de l'hospitalité que lui donne en cette circonstance WORLD-RADIO, pour adresser "to all English listeners" ses vœux de bonheur les meilleurs et les plus cordiaux.

Il souhaite que ce merveilleux instrument de compréhension mutuelle que représente maintenant la Radio, contribue à resserrer encore davantage les liens d'amitié qui unissent la France et la Grande Bretagne, afin que nos deux pays collaborent d'une manière toujours plus efficace au maintien de cette paix que désirent tout dans le monde, "les hommes de bonne volonté."

MAURICE PIERRAT,
Chief Announcer,
Poste Parisien.

Now that another year has passed during which we, the German Announcers, have been

privileged and delighted to broadcast to the world messages of friendship and goodwill, and topical, serious, and cheerful news we may perhaps be permitted, like our listeners, at this festive season just to relax for an hour and hold communion with our listeners. Our thoughts go out to them and we send greetings and good wishes to all people of good will beyond the frontiers.



HEINZ LAUBENTHAL,
Stuttgart.

* * * *

No voice in the world, and no words, can convey my wishes of good will to you all so fully as the wonderful old bells of Germany, and Christmas would never be real to me if I couldn't spend weeks and weeks in preparing this one hour on Christmas Eve.

HELMUT ANDREAÉ,
Frankfurt-am-Maine.



* * * *

Hullo! Everybody Everywhere! The Happy Stations, Hilversum, Holland, calling! Who said there is no St. Nic'laus when you heard our bag of jubilee happiness poured out over the world by the singing and swinging towers of Holland? I mean those new movable beam aerials mounted on wheels by the side of the Zuyder Zee. Sixty solid tons of rotating fun-dispensers. Looks like a merry-go-round, and as a matter of fact it is a merry-go-round for our many thousands of listeners abroad who tune to PC7, your old stand-by for Peace, Cheer, and Jollity.



Bang! We're off, jumping five continents,

seven seas, and warming up the Poles in 1/7 of a second. Listen! To you, my dear friends, our large league of listeners everywhere the world over, to you come greetings from the Netherlands.

Merry DX'mas to you all, and thank you very very much for your 10 years of ceaseless inspiration—the secret of the "Happy Station." That "D" before the "X" up there, stands for Distance in the short wave vernacular. But you might as well drop it, for that guy Distance was locked up long ago. World Radio is the word to-day. To-day we're here, we're there, we're everywhere, and only you can stop us . . . just turn the thing off! And the lights too.

EDWARD STARTZ,
PHI-PC7, Holland.

CHRISTMAS IN EGYPT

(From our Cairo Correspondent)

WHILE there is nothing particularly outstanding in the Christmas programmes of Egyptian State Broadcasting, there is plenty of good entertainment: carols by a choir on Christmas Eve and Christmas Day, a radio pantomime on Boxing Day, a Christmas stag party in the studios on the following evening, and a number of relays from the BBC of Christmas items. It seems from your correspondence columns that not a few WORLD-RADIO readers have been flirting with Egypt's alternative stations (Cairo and Alexandria, and the little 500-watt relay of Assiut).

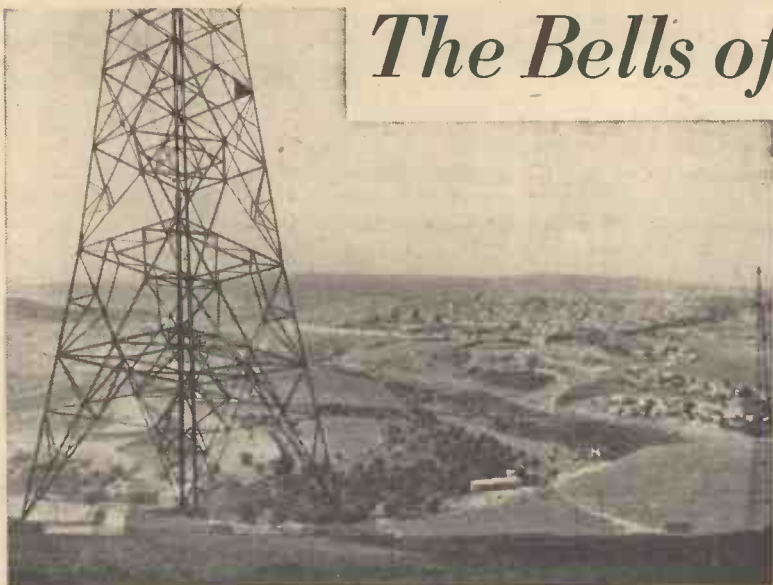
For really outstanding items the Egyptian European service (as distinct, of course, from the far more important Arabic service) has to call mostly upon "birds of passage"—the world celebrities that all, one by one, seem to be drawn to Egypt at some time. But at the time the Christmas programmes have to be compiled the "season" has not taken shape. There are rumours of opera, Comédie Française, Sacha Guitry, and "who not and what not." But nothing definite. There is one notable visitor, however, who has been here on business, not on pleasure, for some little time already—Mr. H. V. Morton—and it is hoped that he will be persuaded to give a talk over the Egyptian service—but that will probably be a little before Christmas.

UNIQUE BROADCASTS

Two events unique in the history of broadcasting took place recently in Cairo when the voice of the Sheikh el Azhar (the Rector of the University of Islam) was heard in two religious talks, both given in Cairo mosques in the presence of his Egyptian Majesty King Farouk I. The occasion was Ramadan, the holy month of fasting, which has just come to an end—a month in which all good Moslems abstain from food and drink and smoking during the day, and thoughts are turned to the more serious aspects of our daily life.

It is not the first time that the great Sheikh's voice has been heard "over the air," but it makes one think with a feeling almost of awe of the day when Egypt has a short-wave transmitter (a possibility that has been discussed in official circles), and when the voice of Egypt shall be heard throughout the whole Moslem world. Even to-day the Cairo main transmitter is heard throughout practically the whole of the Near East, and demands for details of the Egyptian State Broadcasting programmes come from as far east as India and Ceylon.

The Bells of Bethlehem



FROM Bethlehem, Palestine, at 5 p.m. on Sunday, December 26, part of the annual Nativity ceremonies will be broadcast by the BBC in the home and Empire programmes, and rebroadcast by CBS, of America.

Following a brief announcement from the Jerusalem studios, the Bells of Bethlehem will ring out. Then a speaker will describe the scene in Bethlehem and the Church of the Nativity—a relic of the Emperor Constantine's Basilica—built over the Grotto of the Nativity; and its world-famed Latin Choir will be heard, accompanied by the organ.

The speaker will continue, describing the interior of the church. A second speaker will take up the commentary with an account of the actual birthplace of Christ, given from the Grotto itself.

It is hoped to include in this presentation of Christmas in Bethlehem a "visit" to the convents of the Greek, Latin, and Armenian Churches, the Altar of the Innocents, and the Tomb of St. Jerome, and the reading of a few verses in Aramaic, which is claimed to be the nearest modern tongue to that spoken by Christ.

Four microphones will be used: one in the Latin Church high up above the organ and choir loft, one for the speaker, outside the old Crusader wall overlooking the church, the town, and the country-side; one in the Grotto; and one in a roof-garden courtyard below the belfry.

The broadcast will be carried to Cairo by landline, and thence, with the co-operation of the G.P.O., by beam to London.



Top (left): Aerial masts of the Palestine Broadcasting Station silhouetted against the city of Jerusalem—a view taken from Mt. Scopus looking across the Valley of Jehoshaphat.

★ ★ ★

(Right): The early Byzantine Church of the Nativity in Bethlehem, the oldest church in Christendom. On the right is the belfry, the bells of which are now heard the world over each Christmas Day. The town of Bethlehem is seen in the distance beyond the church.



Middle (left): Bethlehem seen through an open belfry. The Church of the Nativity is on the left.

★ ★ ★

(Right): A typical old Yemenite Jewish Rabbi, enjoying his "radio," from which he can take his choice of programmes in either of the three official languages.

★ ★ ★

Bottom: Bethlehem seen from the Shepherds' Fields. The three camels suggest the Wise Men approaching Bethlehem from the East on the first Christmas Day.

SOME MORE "LOST" FINDS

By ASHLEY STERNE

I THINK I may say with perfect safety, and without first consulting my solicitors (Messrs. Rowley, Powley, Gammon, and Spinwich), that the outstanding event of the past year in Continental concert-programmes was, the recent broadcast from all German stations of Schumann's "Lost" Concerto for the violin.

For my own part, I was bitterly disappointed in not being able to pick up any of the German stations concerned. Adjusting my set for Berlin,

After arduous search, however, the complete work has now been rounded up, and is found to have been written upon six sheets of pink blotting-paper, nine luggage-labels, the parchment lid of a marmalade-jar, the backs of two hotel-bills, and a Football Pools coupon. It is to receive its first performance in Archangel at the forthcoming Show of Bloodstock Reindeer, and negotiations are in progress with the Archangelic Broadcasting Hierarchy (Inc.) to have the broadcast of the work, or at least a running commentary thereon, relayed to Nyiregyháza, Schenectady, Stara-Zagora, Freiburg-im-Breisgau, Mexico City, and Western Regional.

Serge Safetypin's Symphony

Another noteworthy discovery is the MS. of an early symphony by Serge Safetypin, who seems to have shared with his compatriot Tchaikovsky all the latter's well-known obsession for tearing up early MSS. It would appear that after the first production of Safetypin's work, and despite the rapturous and unanimous *éclat* with which it was received by all three members of the audience, the composer was so embittered by the performance of the gentleman playing the B-flat tenor triangle (who, at an intensely dramatic juncture in

the work, forgot to put the mute on his instrument), that on returning home he borrowed his wife's cuticle-scissors, and forthwith proceeded to cut up into tiny pieces the entire score and parts. These he subsequently sold to a confetti-merchant for a mere song.

It was at the last annual stock-taking in the merchant's warehouse that the long-forgotten sack containing the disintegrated symphony was discovered in a dark and obscure corner, and its contents examined. The foreman, an intelligent and discerning fellow and an ex-member of the famous Don Cossack Choir, immediately recognised the fragments as being literally *morceaux de concert*, and thereafter devoted all his leisure time to piecing the bits together and pasting them on to sheets of plate-glass so that both sides of the MS. might be rendered legible.

The full score and parts are now completely restored, but as in their present condition they weigh close upon 300 tons, a second performance of the work seems impracticable at the moment of going to press. Yet it is a foregone conclusion that the symphony (christened by its restorer with the title of "Paste-thetic," in memory of his strenuous labour with the gumpot) will sooner or later be put "on the air," and I therefore conjure all musical readers of WORLD-RADIO to keep a carefully skinned eye upon future concert-programmes transmitted from Dniepropetrovsk.

A curious incident has occurred in the matter of the search for the missing MS. of a short Christmas carol composed by another once-famous Russian composer, Oopinkoff. A recent post-mortem search among his personal effects revealed, carefully put away in a store cupboard, what at first sight indubitably appeared to be the four vocal parts of the "lost" carol. Anyway, a quartet party was invited to co-operate,

the alleged parts were distributed, and the carol tried through.

A Carol by Oopinkoff

The eminent musicians present upon the occasion were nonplussed. The little work, though undoubtedly euphonious at times, sounded in the main too cacophonous to be pronounced authoritatively as the composition of Oopinkoff. Which it certainly wasn't. Subsequent investigation showed the supposed small sheets of MS. music to be nothing of greater musical moment than four thin slices of lightly-buttered currant loaf.

The sequel is likewise curious. The serving maid, on being told to consign the unappetising *pabulum* to the dustbin, misinterpreted her instructions, took the slices round to the chemist's, handed them across the counter, and, after waiting a few minutes, received in exchange a bottle of liver-tonic, a box of gout-pills, a pot of chilblain ointment, and a 2-lb. jar of bath-salts.

Nor is the case of the recovery of the lost Suite in A flat (fully furnished with h. & c. running water in all bedrooms) by the celebrated Hungarian composer, Teeketl, any less sensational. Teeketl himself lost the MS. some seventy years ago when returning home late one night from a Darts Match at a local *mjilkba*, or, as the peasants call it, *pjublikhaus*. It was found next morning floating in a horsetrough by a naval architect, who conscientiously took it round in a *takzy*, or Hungarian ox-wagon, to the nearest police station.

On arrival there, however, he discovered that he had left the MS. in the vehicle which had brought him, and which had at once departed. Nothing more was heard of the missing composition for twenty years, when the Abbé Liszt, in the course of making his toilet one morning, was astounded to find it in his trousers-press. He promptly did it up into a newspaper parcel, addressed it to Mrs. Teeketl, and despatched it by a District Messenger boy.

On his way the miserable lad was kidnapped by a band of gipsies, who badly needed an apprentice to learn the balalaika for their inevitable Magyar orchestra, and so once more the MS. disappeared. It was not until this last summer that it again turned up, discovered by an eminent London musical critic in a second-hand music-shop in Tin Pan Alley, where it occupied a lowly position in a receptacle full of beer-and-tobacco-stained banjo-music labelled "All in this tray, 2d." Purchasing the precious relic, the eminent critic bore it home, tried it over on his piano, and decided that it would be all to the good, considering the universally lofty position and reputation which Hungarian music had always and deservedly enjoyed, if he lost it again.

Finally, a report reaches me, even as I write, that Mr. Dyer Pason, the centenarian organist who had the misfortune to mislay Miss Adelaide Proctor's famous "Lost Chord," has found it again after very many years of concentrated search. He is much disappointed, they say, that the chord no longer resembles in the least the sound of a Grand Amen. Rather does he claim that it sounds more like the final "sour" chord of a "swing" dance number. However, I intend to make early personal investigation upon this point, and my complete analysis of the chord will appear in an early issue of this journal.

[I think not!—Ed.]



It was found... underneath the Librarian's lunch

I got a Cookery Talk from Cardiff by a Mrs. Ursula Meadle. Shifting to Breslau, I heard an illuminating Gale Warning, followed by a Haddock Fishing Bulletin from Stagshaw; while all I could extract from Cologne's wavelength was a Celtic Poetry Reading from Northern Ireland.

Thus I am regrettably precluded from offering my own humble opinion for what it is worth (or I would even take less for spot cash) on the merits both of the work itself and of its performance on this memorable occasion. But I have learnt my lesson, and if there should come a "next time" when a found "lost" composition is kindly handed to us music-lovers on a plate *via* ether (a highly probable contingency, as I am about to reveal), I shall take every possible precaution to ensure its getting a fitting and adequate "reception."

I do not think that it is generally known that since the locating of Schumann's Concerto in the Berlin State Library—it was found on the third shelf of the bookcase underneath the Librarian's lunch—there has been a positive boom in searching for other lost musical MSS. all over Europe. Seekers therefore have been ransacking not only State Libraries, but State Pawnshops, State Rubbish-Dumps, State Curio-Shops, and State Jumble Sales, with the result that some very remarkable finds have already been made.

For example, there has turned up the long-missing Trio for Ear-Trumpet, Ice-Cream Cornet, and Soudanese Nose-Flute, the work of the onetime famous Lapp composer, Pritij Pusskatz. He contracted the unfortunate habit of his contemporary, Schubert, of composing his music upon any odd scraps of writing-material which, when the divine *afflatus* rose to the top, chanced to be lying ready to hand, thus adding enormously to the already considerable difficulties of tracing and recognising his MS.

The MAGIC BOX in ASIA

By SULTAN MOHAMED KHAN

ISKANDAR, son of Iskandar, had ridden hard over the burning sands of Samarkand the whole day, in order to listen to the broadcast programme of Turkestan. He had done so because he had heard from the railway guard of the Trans-Caspian line that a grand Christmas programme would be relayed that day.

It mattered not to him that he was not a Christian, nor, officially speaking, was he expected to believe in religion at all; only he loved the wireless more than the tomb of Tamerlane.

As he rushed past me, into the women's quarters, he did not spend much time over salutations to his parents before turning on the "magic box."

In his haste, he tripped over the samovar. Hot saffron-coloured liquid from the urn quickly soaked into the Bokharan carpet on which I sat gossiping with his aged parents.

"Ha, Hauo!" shouted his father, "thou begotten-of-a-she-wolf, thine ugly sandals have knocked over all my green tea! What is thy haste?" he growled at the youth.

Russians might be comrades, and all that, thought the aged Iskandar, but no Uzbek youth should talk overmuch with them, even to the guard of a train, though he might give the world's news in a newspaperless country. "Love of the Magic Box is more in thy blood than the love of Allah! Leave the infidels alone!" he commanded.

"And you call it magic box—a black art?" barked the young Iskandar at his wife. "It is nothing of the sort, woman. It is wireless broadcast programme. It is a real, human voice, as real as my own. Do I, a commissar of Uzbekistan, not know it?" and he thumped upon his chest.

The good lady of Golden Samarkand did not feel convinced in the least. "Oh, Ulla Iskandar," she replied in an appealing tone, "ever since thou marriedst me, and swore upon the Sacred Kitab to cherish me as thy wedded wife, thou of a truth sought my well-being always. But," she looked disgustingly at the wireless loud-speaker, "banish this from our home. It is a thing of evil!"

"Tin-tin, tin-tin, tong-long, ling . . ." meantime continued to sing the wireless from the Tashkent broadcasting station, throwing into ecstasy half the population of Samarkand with the music of its Central Asian guitar.

And Iskandar, son of Iskandar, like all the lads of that Uzbek town, sat mute and enraptured before the loudspeaker.

For close upon an hour the Iskandar family and I were regaled with Oriental music and song from the small Central Asian studio, standing as it does like a barrack-room, buttressed by thick mud walls to make it sound-proof. Then there boomed out the hour of eight, when all good men of Tamerlane's city betake themselves to bed.

Moscow Calling!

Iskandar and his son, however, being officials of the Soviet Republic of Uzbekistan, stood to attention, as the voice of the Kremlin came floating over the desert and the dunes of old Turkestan.

"It is Moscow calling—Moscow calling," it announced; then Comrade Chalopemski—or whatever his name was—gave us a solid hour of collective farming rules and regulations; and, my Uzbek chieftain-host's loyalty notwithstanding, I saw him also shaking his head when the lecturer solemnly attested that certain kinds

of seeds gave satisfaction in the collective farms even on the shores of the potash-ridden Ural Sea.

I could hear Iskandar's wife and sisters snoring in an adjoining room when the news came on. Iskandar poured some more green tea in my cup, and pushed the dish of melon slices before me, meaning that we were in for another hour's dry stuff.

In the news were given out the chief items of the Turkestan cattle market, agricultural prices, how a collective farm was mismanaged, and finished up by announcing the number of pilgrims to Lenin's tomb. Then followed a short story—a long short story—which related the adventures of a ship's crew in the Black Sea. The cruel treatment given by the class-conscious captain was described with all its naked gruesomeness, and how the crew, unfurling the Soviet flag, paid the captain back in his own coin. The subtlety of the treatment in composition was almost classic of its kind; for at the time, at any rate, I also found myself hating the captain intensely, and was quite glad to hear, at the conclusion of the story, that he was thrown overboard to the sharks.

All of a sudden, a faint strain of a jazz band followed lingeringly in the wake of the fading Moscow programme.

"It is that ugly propaganda!" shouted my Turkestan host. "It is that evil band of dance from some capitalist country in Europe." Saying that he would not have that kind of godless air in his ears, the Uzbek Chief silenced the wireless, and we turned our faces Mecca-wards: he, the young Iskandar, and I offered our last prayer of the night in Golden Samarkand.

Soon after this experience I was in Kurdistan—not that part of it in which the Baghdad Government is introducing civilisation, but in that ugly corner of the country where three

empires meet, and jagged peaks, like giant scimitars, forbid all progress to enter. It was in one of those villages that I found Zal the Bad, sipping coffee.

It was perhaps no business of mine, but I did express surprise that a "devout" Arab was lingering in a Kurdish café: was he hiding from the long arm of Damascus law? This time I was wrong. No, he had not escaped after one of his many brigand escapades. At least, this is what he said.

No man was trailing him, he was sure. He was hunted by a Voice. He hated that sort of chase.

"A voice?" I asked. "Are you mad?"

He was not mad, he said, after taking a good pull at his hubble-bubble. Something was trailing him—something sinister, like the hoof of an evil one; and the sound of it droned in his ears, even as he, dropping his rifle, drove his charger under the shelter of a rock.

The "Voice"

The Voice had come through a thing hung from the ceiling of a Damascus café; it had said that Zal was about: "Look out for Zal—Zal the brigand, who with his men has looted a caravan only eight hours ago. Three men were killed. Look out for that Killer, and inform the nearest police of the desert!"

"And whence came this voice?" I asked.

"Allah curse it! It came through the air—through a nothing—even without wires, riding in air, in air! They say it is some new magic of the Franks!"

Presently, men were crowding back into the café after the sundown prayer; and Qulcha boys were plying the customers with coffee and yet more coffee. I saw the owner of the place open the lid of a box and adjust some wires.

A wireless melody immediately sprang up. Clearer and clearer the note of each reed instrument ascended till suddenly they blended to the thudding of drums; and then, gradually throbbing, rising, and falling, faded into a languorous sigh, which is a desert song of love—and this broadcast from a European station.

Zal sat beside me like a frozen figure, frozen with fear—afraid of a Voice after having defied the might of an army.

The Voice through the air came again!

The wireless re-started a weird and wild melody, like a torrent tumbling down the crests of Allah's hills, making the sheikhs and the peasants and the camel drivers alike live again the day of raw life that was before the law was strong. "Wallahai, Wallahai!" they shouted. "It puts balm to our hearts." They yelled with warlike glee; a bearded sheikh, digging into the folds of his robes, threw a handful of coins into the instrument, by way of a gift to the singer.

Once again the wireless, slowing down to a murmur, was now fading away gently, and I touched Zal, for he seemed to be as a man in a trance.

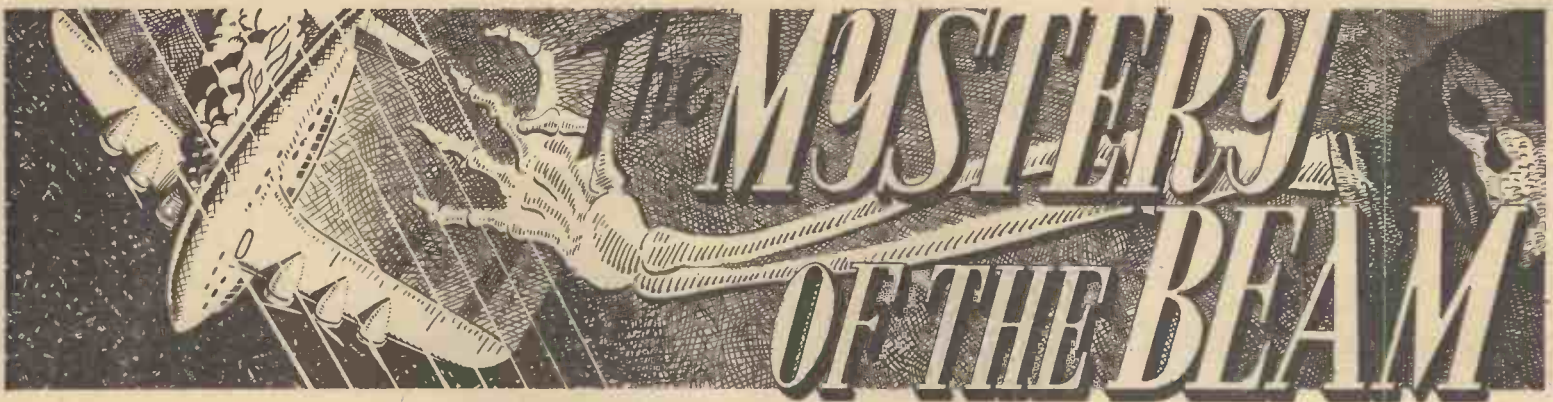
"Do you not like music?" I asked.

He moistened his dry lips. "Brother, rescue me!" He spoke huskily. "The Voice is tracking me down. There are many reasons why I have no wish to be trailed. One is my growing son Bilal—he is young and brave. Allah knows, I do not wish him



"The cursed Voice," I heard him say. Then his revolver spat

(Continued on page 11)



AS Professor Staples alighted from a taxi at the entrance to the Air Ministry in Kingsway, a newsboy rushed by, shouting "Paper! Another Aeroplane Accident! Paper!!" Calling the lad back, Staples quickly possessed himself of a copy and read:—

"AEROPLANE CRASH IN SURREY

"A Belgian air liner, flying from Brussels to Croydon, crashed near Oxted, Surrey, early this afternoon. All its occupants, 7 passengers and 4 crew, were killed instantly.

"The accident occurred not far from Whistler's Wood where a Belgian air liner crashed exactly seven years ago, on December 10, 1935, with a loss of 11 lives.

"It would appear that the aeroplane took fire while in the air, and eye-witnesses have stated that it continued its flight for over a mile before it crashed.

"Today's accident brings the total of so-called 'mystery' air crashes to 30 within the past ten days, involving the appalling loss of 353 lives! That such a terrible series of accidents can be due to service conditions is out of the question. The public generally is convinced they are due to the operation of some form of 'death ray' . . ."

Without waiting to read further Staples crushed the newspaper into his pocket and hurried into Adastral House. A few words to the commissionaire and the production of his card quickly gained him admission to the presence of Air Vice-Marshal Burge.

After the usual civilities had been exchanged, Burge, who was clearly a man of vigorous action, said:—

"I asked you to call at once, Professor Staples, because we wished to consult you regarding the appalling accidents to aeroplanes in South East England during the past ten days. The whole of the civilised world is shocked by these terrible catastrophes, and matters in England are fast reaching the panic stage. Air passenger transport has dwindled to one-third of normal, aviation shares on the Stock Exchange are almost unquotable, the Air Lines Pilots' Association has notified Britannic Airlines its members will make no more journeys after tomorrow, and practically every newspaper in the Kingdom is clamouring for immediate action of some sort from the Government."

As he paused Staples nodded, but did not interrupt, for it was obvious Burge was in a great hurry.

"Three days ago," Burge went on, "at the instance of the President of the Air Council, of which body I, as Director of Research, am a member, I was instructed to convene immediately a technical committee, and, at all costs, and with utmost expedition, track down the cause of these disasters and put a stop to them.

"At a committee meeting held only two hours ago it was suggested that we get your views on the matter. The meeting was accordingly adjourned to enable me to get in touch with you and to secure, if possible, your presence at

the next meeting, which takes place at 5 p.m. tonight.

"You enjoy a world-wide prestige in wireless matters, and what my committee particularly wished to get at was whether, in your opinion, these catastrophes could be due to some form of 'death ray' or 'power' or 'interference' ray such as was suggested by Marconi several years ago?"

Staples smiled. "I agree the public are only too ready and willing to believe that almost anything is possible by so-called 'rays,' but between ourselves, as technical men, the whole idea is absurd and impracticable."

"Then you do not think there is even the remotest possibility the disasters in question can be due, directly or indirectly, to the activities of foreign agents?"

"I am convinced they are not."

"Then in God's name, what can they be due to!" burst out the Vice-Marshal impetuously. "My knowledge of service conditions—and my Committee are in unanimous agreement with me—is that there is something damned queer going on somewhere or somehow. Something abnormal, something which our most skilled pilots and latest type machines seem unable to combat. Do you know, sir, that Civil Aviation is not alone affected? That within the past two days we have lost two of our largest type military bombers?"

The Air Council Meet

"So far we have been able to keep these military disasters out of the Press, but it can be kept back no longer . . ."

The ringing of the telephone at his elbow stopped Burge's outburst.

A few terse, snappy replies followed, and then, replacing the telephone, he said "Another disaster! Britannic Airlines liner *City of Dublin* crashed at Amiens, and a total loss of 32 lives is feared."

Just then a buzzer sounded and Burge sprang to his feet. "That is the Air Chief Marshal," he said. "Will you please excuse me for a few minutes?"

Without waiting for a reply Burge hurried from the room while Staples busied himself with the newspaper he had recently bought.

In a few minutes Burge returned. "I am sorry I must leave you now, Professor," he said; "but if you will be so good as to return at 5 p.m. you will find my Committee ready to hear for themselves your views on the matter. There is a meeting of the Air Council taking place at once, which I must attend. Something appears to have upset my Chief pretty badly . . ."

"I think I can guess what it is," replied Staples, his eyes glued to the newspaper in his hand. "Read that!"

Quickly Burge scanned the paragraph indicated.

"Heavens!" he cried. "Something will have to be done now, and done pretty quickly!"

"Is there any action your Committee can recommend?"

"Absolutely none!"

"That settles it. On the ground of extreme urgency we must cut out your Committee. Will you please ask the Air Council if, before they start their deliberations, they will be so good as to hear my views on the matter? Tell them it is a matter of vital urgency, necessitating immediate and drastic action, such as only they can initiate."

Burge stared at Staples incredulously. Then without further argument he hurried out of the room.

Ten minutes later found Staples seated in conference with the Air Council. The full seven members were present and the Secretary of State for Air was in the Chair.

"Gentlemen," said Staples, "I realise the urgency of immediate action, but I also realise that unless and until I can give you some reasonable grounds for my theory as to the cause and origin of these disasters, it will be worse than useless to expect you to take the action I shall recommend."

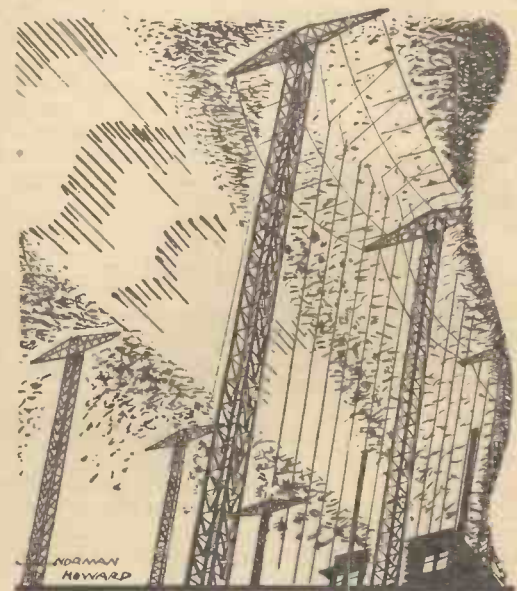
At this point he was interrupted by the Chairman, Lord Smee. "Precisely what is the action you suggest and what is the cause?" he enquired crisply. "If it appeals to us we will act first and deliberate afterwards."

"Action required: the immediate closing down of the new super-power wireless station at Reading. Cause: action of wireless waves of said station," answered Staples tersely.

"Wireless station!" burst out the Senior Air Member. "What on earth has the wireless station at Reading to do with the problem of aerial disasters?"

"You will perhaps find out if you do what I say," retorted Staples, somewhat nettled at the incredulity so openly expressed.

"But the idea is ridiculous. Wireless stations, such as Reading, have been in commercial



operation as news-senders for years past without affecting aviation in any way."

"The bald fact remains," answered Staples crisply, "that you have your facts wrong. No other wireless station in the world is pumping 1,500 kilowatts into the ether and no other station, with even a tiny fraction of this power is working on 6½ metres. And, what is more, the Reading-Didcot commercial stations of the General Wireless Co. Ltd., took over from the Grimsby-Skegness stations on the 1st instant and on that very day the disasters in question started!"

"Gentlemen," interrupted the Chairman, "Professor Staples has answered my first questions quite tersely and succinctly. We shall progress much better if he is now allowed to make a statement. In the meantime, Burge"—turning to Staples's introducer, "will you please arrange for the Chairman of the Board of Directors of General Wireless Co. to be in attendance at once, on a matter which vitally affects his company?"

As Burge hurried from the room, Lord Smee said, "Now, Professor Staples. Will you start again please?"

Boundless Untamed Energy

Once again Staples got to his feet.

"I need waste no time," he began, "in describing the enormous expansion of wireless which has taken place in recent years. At the present moment, millions of horse-power of high-frequency electric energy is literally 'running wild' in the ether of space. Where does it go and what becomes of it? We know beyond all doubt that the wireless receivers of the world absorb only an infinitesimal fraction of this prodigious output of energy. And yet, hour after hour, and day by day, countless thousands of additional horsepower of high-frequency energy is being pumped into the ether to add to the surplus not so used. Does this energy continue to circulate round the world, chained to earth, as it were, or does it vanish for ever into the void of space, never to return?"

"Modern research has shown it does both," he went on. "That is to say, whilst a portion does go off into space never to return, the major portion is absorbed by both living and inanimate objects, and is actually detectable as surging forces of electric current. Here and now, each one of us is absorbing a part of this energy, and the tissues of our bodies are seats of tiny electric currents which owe their origin to wireless transmitters from all over the world.

"What I am going to suggest to you is that, under certain conditions, this wild and roving output of energy can become a source of very great danger—a source of death and destruction as we have witnessed in the last few days.

"In the old wireless days, when long wavelengths were used, the potential danger of these waves of energy resonating with man-made objects was very rare—such objects being, for example, the metal frames of very large buildings or the metal hulls of ships.

"But to-day things are vastly different. Not only has there been a terrific increase in the radiating power, but the wavelengths used have become smaller until they have been pushed down to a region where they compare, in resonant frequency, with a vast number of everyday appliances—that they are, in short, in tune with the natural frequencies of the metal used in garages, automobiles, machines, and even the metal frames of pianos and domestic heating apparatus!

"Definite tests have revealed that, given resonance—and resonance is the vital factor—potentials of thousands of volts are generated, and sparks or discharges may be produced that will cause fires and explosions.

"Naval experiments have proved that voltages as high as 2,000 volts have been developed in guns whose lengths are comparable to quarter

wavelengths, or multiples of quarter wavelengths, of the battleship's radio transmitters, and electric lamps may be lighted on certain of the guns when the radio transmitter is working.

"Even the primers of aeroplane wing tip flares have been set off when the 'plane has been exposed to the full force of the antennæ fields, and currents powerful enough to light the aeroplane running lights have also been produced. These are demonstrable facts, gentlemen, not mere theory.

"Until quite recently commercial wireless stations have been using anything between 16 and 36 metres according to the time of day and service conditions. But thanks to the wonderful discoveries of the past two years it is now possible, for the first time, to radiate great power on very much smaller waves, and the Reading super-power station of 1,500 kilowatts, on a wavelength of 6½ metres, is the latest triumph of science in this direction.

"But here is the vital fact, gentlemen, a fact hitherto not appreciated. A wavelength of 6½ metres is practically in exact resonance with the metal framework of the average aeroplane!"

"And if you construct a map showing every accident of the past ten days, you will find they all lie in the direct path of Reading's beam wave operating to India and Australia. Dutch, Belgian, German, or Scandinavian airliners have been immune so long as they were flying over Europe, but once they came over English soil and in the direct path of the beam from the Reading transmitter, they suffered the same fate indiscriminately with those of Britannic Airlines. This fact alone, gentlemen, in my opinion, effectively disposes of any suggestion of foreign spies and 'death rays.'"

The rapt attention with which each member had listened to Staples was eloquent proof of the effectiveness of his argument.

As Staples paused, the Chairman asked: "There were two 'plane accidents, on the same day, in Northern Ireland some weeks before Reading was officially opened. How do you account for that?"

"The accidents in question are, strangely enough, the only real tangible proof I have to support my theory," came Staples's unexpected reply.

Doomed 'Planes

"For on the day and time in question I have definitely ascertained that, for purposes of an experimental 'test' the beam was projected westwards, to test reception around the world in the opposite way, just as transmissions to South Africa are sometimes sent *via* the North Pole."

"If Reading is closed down within, say, the next hour, do you consider the air journey from India of the 'important personages'—to which you drew Burge's attention—can safely be completed?"

"Yes. But instant action is necessary. Their 'plane left Alexandria nearly three hours ago, and one accident, at least, which occurred near Marseilles, I attribute to the Reading beam."

"I am at a loss to understand how it is that at all hours of the day and night, scores of other 'planes flying on similar routes come through unscathed. Why are odd 'planes, here and there, doomed to disaster?"

"I cannot say definitely. Given resonance, the tiniest currents build up quickly and enormously. The whole 'plane becomes, in actual fact, a highly charged conductor of electricity. I am quite aware that all possible preventive measures are taken in modern airliners to prevent petrol leakage, but practical men will tell you that, sooner or later, on every 'plane, such leakages are to be found. When such a state of affairs exists one single spark may cause a terrific explosion. And a spark may arise from a variety of almost inconceivable circumstances, such as from a pencil used by the wireless operator, or from the finger-tips to

the controls! The operation of the ship's own wireless set might even cause a conflagration. Or, as an extreme case, a spark might even jump a gap *inside* the petrol tank! The intensity of the potential would vary with the degree of resonance, being at a maximum when the full wave resonated with the frame of the ship, and when much smaller objects formed harmonics.

"Most of the accidents have occurred near London when the 'planes were flying low and in the full force of the Reading beam. On several occasions the machines were definitely seen to explode and crash to the earth in flames. And as you know the closest examination by experts of the surviving framework or material has so far absolutely failed to reveal any cause for the accidents in question. I will stake my professional reputation that the closing of the Reading station will effectively put a stop to any but normal accidents occurring in the future."

"And what would you suggest be done with the Reading station?"

"It should be converted back to the original 18-36 metres transmissions, at the same time retaining the 6½ metres transmission for use in emergency!"

"For use in emergency!"

"Yes. I think it would be a simple matter to take such precautions as would prevent British 'planes resonating at 6½ metres or thereabouts. Then in the event of war breaking out it is possible a reversion to 6½ metres transmission might form a valuable asset in defending London from aerial attack. Assuming, of course, that the disclosures I have now made are kept secret."

"You think it would be wiser not to tell the public the cause of these aerial disasters?"

"I do—most emphatically."

"Thank you, Professor Staples. The Council will now proceed to consider your evidence with a view to immediate action. In the name of his Majesty's Government I express the utmost appreciation for the valuable services you have rendered."

The following announcement appeared in *The Times*, dated Thursday, January 1, 1942, under "New Year Honours:"

"BARONETS.

"STAPLES, Arthur Ramsey, F.R.S. For extraordinary services to radio."

The Magic Box in Asia

(Continued from page 9)

to become a brigand, like me; and I should like to tell him so, before—before the Voice tracks me down..."

The wireless, however, was alive again. It was speaking in Arabic, and this time it gave news—news of crops, of date-palm groves, and of Zal—

"Zal, the brigand, has escaped; he might even now be sitting amongst you..." it started.

As one stung, Zal leaped up. "The cursed Voice!" I heard him say. Then his revolver spat. Once, twice—the third one found its mark, and the instrument was thus silenced. Consternation broke out in the café.

In a trice Zal was on his roan, others wildly following. In the moonlight night I saw him slip from his saddle, flatten behind a rock, and, while still firing back, he went scrambling down into a shallow gully and freedom.

"The Voice from the Air would have captured me sooner or later, had I not left my life of brigandage," I heard him say to his son, when, after many moons, I was the guest of his family in Basra, where he lived as a reformed and respected pearl-broker, and listened to wireless without a dread. Which are only two instances to show how the wireless is changing the life of Asia from the Golden Horn to the fringes of the Far East.

Why I am a Short-Wave "Fan"

By DAVY BURNABY



In addition to being a public entertainer and broadcaster of the first rank Davy Burnaby is a listener of long and wide experience. Here he sets down, in his characteristic manner, some of his memories of short-wave listening.

SO as to disarm any criticism I will now state I know nothing whatsoever about the inner workings of a wireless set, so, knowledgeable people, please forgive me if I appear technical, and thus display my ignorance.

I have been a short-wave enthusiast since 1922, when I was playing in the Co-optimists at the Palace Theatre (Phyllis and Betty, please forgive me for rubbing in the date!). At that time, 1922, I was tuning in KDKA, Pittsburgh, at 11.15—just after the curtain came down—almost every night. So surprised was a certain BBC engineer who came round after the show that he said to me: "Our stations have closed down. What on earth are you getting?" I said, "America." He refused to believe me, and waited for the call-sign.

Do you know it was even suggested that I should relay it from 2LO? Much to my disappointment, they thought my contraption might break down. And it *was* a contraption! It was made for me by a friend of mine. It had two valves and a couple of coils perched on two long sticks which stretched right across the dressing room. These were tuning handles; You couldn't get near the set. The body capacity was terrific; at least mine was. One colonel friend of mine used to sway about the dressing-room to help me tune in. He swayed perhaps for other reasons as well, as it was Christmas time.

Intelligent Anticipation

Listening one night to the Dempsey and Tunney fight in America, I actually knew the result on my set before many people at the ringside. This sounds like a "Believe-it-or-not" story, but we could hear the loudspeakers which were placed around the arena giving the result back to the main microphone, as the sound took quite a second to travel back.

One day in Manchester, in 1924, the then Chief Engineer of the BBC happened to be staying in the same hotel, and he and poor old Melville Gideon came to my room after supper. In those days I had a nine-valve superhet. Melville started twiddling the knobs, and to his great surprise and ours tuned in a station; we waited and heard it was Bournemouth testing. Bournemouth in those days transmitted on a very high wavelength. I said, "It can't be Bournemouth," so "buzzed" them on a wavemeter (oh, yes, I even have a wavemeter) and found they were on 421 metres. The Chief Engineer said: "That's funny. I wonder what they are doing." I then proceeded to telephone the Bournemouth Station; I told them they were on their wrong wavelength. They very politely said: "Thanks very much, but how do you know?" I told them I had a wavemeter. "Oh," they said, "what do you make us?" I said "421 metres." "You're quite right," came the reply: "We are experimenting with the new Rome station. We are trying to see if we interfere with them, but we can't get them." Amidst great excitement I said, "What are they working on?" The reply came, "They are just below us." I altered my dial

slightly and the direction of my aerial, and lo and behold! Rome! I let Bournemouth hear them down the telephone. A bit of a scoop for the Boy Davy, what!

I believe I was also the first amateur to tune in the *Leviathan* when she was broadcasting on medium waves about half-way across the Atlantic.

But, to return to short waves. When playing in Birmingham in pantomime two years ago we did several broadcasts. Imagine my surprise when I got this letter, the address being 67, McDougal Street, Sault Ste. Marie, Ontario:

"Dear Sir,—I thought it might interest you to know that on New Year's Day at 3.30 p.m. I heard *Aladdin* on my short-wave wireless clear and distinct. We are about 600 miles west of Montreal in Northern Ontario.

With every good wish.

Yours very truly,

GEORGE W. DEXTER."

told me to tune in quick on 25 metres as we were "on the air" again. I found the station. It was uncanny hearing the show all over again "on the air."

Another strange thing is that I can tune in the "sound" end of television on two different low wavelengths, about 20 and 22 metres. This is peculiar, as I understand they transmit on 7 metres. Is it possible that I am listening on a harmonic? Someone will answer and say, "No, on a harmonica." Once again I had a very amusing experience. I was listening on a new low wavelength receiver at the home of the late Philip Braham. His house was situated on the hills outside Henley, an ideal spot for reception. Imagine my surprise when I tuned in the American end of the New York and Paris telephone service. It was obvious this was so, because the conversation from America was something like this—but, on second thoughts, I won't give it; the P.M.G. won't let me!



Davy Burnaby listening in his dressing-room with Phyllis Monkman and Betty Chester during the run of the Co-optimists in 1922.

Thank you, Mr. Dexter, I have only quoted the major part of your letter. It was a great thrill. Again I received another surprise communication from Intelligence N.C.O., 1st Batt. The King's Regiment, Landi Kotal, North-West Frontier Police. He wrote that he heard me in Lauri Wylie's *All in Pink* broadcast, and could I send some songs and sketches as he runs a concert party. Sergt. C. H. D. Craig, you will get some material by the next post. Strange to relate, I had another thrill over this very broadcast. I hope I am not giving away State secrets. Records are taken of these shows and re-broadcast to the Empire at other times of night. One evening my old friend Fred Yule, who was also in the cast, rang me up and

To revert to Empire broadcasts: I had a very pleasant experience recently. I have a friend, a Siamese by the name of Prince Tongtor, who, when I first knew him, was in the Siamese Embassy in London. He returned about three years ago to Siam. One night he told me he couldn't sleep, so got up and tuned in his wireless set. It happened to be the night I was doing my Radio Biography. Suddenly he said: "Good heavens! That is my old friend Davy Burnaby. I shall go to London to see him." He was off the next day, and I was the first person he rang up on his arrival in London. It is terrifying to think one can be heard all over the world.

(Continued on page 13)

ROMANCES OF GREAT MUSICIANS

“Ritter Gluck” the Bohemian

By Dr. Erwin Kroll

GLUCK, whose one hundred and fiftieth anniversary has recently been widely celebrated by many European stations, must undoubtedly be counted among the great musicians who found domestic felicity. He had already achieved a certain amount of fame as a musician, and had travelled widely, when he settled in Vienna. This was in the year 1749—a year which Gluck described later as “the happiest and at the same time the unhappiest” period of his life.

He became a frequent visitor at the house of a merchant named Joseph Pergin, who was the father of two charming daughters, both passionately fond of music. He fell in love with the elder one, Marianne, and her mother saw no objection to the courtship. But the mercenary father did not welcome having a musician as a son-in-law, and in face of his opposition Gluck had to retire from the field, at any rate for the time being.

Profoundly unhappy, he went to Italy, where he gained fresh laurels as an opera composer. Soon after Herr Pergin died suddenly. There was now no obstacle to the union of the two young people, and in September, 1750, Gluck and Marianne were married.

A Jovial Soul

Marianne brought her husband a considerable dowry, and there seems to be little doubt that she had great influence over Gluck, whose manner at times was impetuous and blunt. She accompanied him on his numerous travels in connexion with his art and she took care that he did not indulge too freely at convivial gatherings. This wise restraint was indeed necessary for the house of “Ritter Gluck”—since the Pope had conferred the Order of the Golden Spur upon him he styled himself “Ritter”—became more and more the centre of Viennese artistic and Bohemian society.

Few distinguished visitors to Vienna would fail to call on the great reformer of opera. In 1772 Dr. Burney, the well-known English music historian, was entertained by Gluck and his wife and stayed with them for some time. Ten years later Herr Reichardt, famous as Frederick the Great's Director of Music, and as a brilliant author, paid a visit to the Gluck household. This is what he relates: “As I drove up to the door of the house, the tall and stately figure of an old man, surrounded by the members of his household, met me. He was magnificently dressed in a grey robe embroidered with silver, and he received me with far more dignity and magnificence than I had ever expected.

Wifely Devotion

“We sat down to dinner at a richly-served table. His solicitous wife watched her husband carefully so that he, perforce, had to practise some moderation; a stroke which he had had made her watchfulness necessary. . . . As soon as we had partaken of coffee, and had taken a walk, Gluck sat down at the piano and, to my great delight, sang, but with a weak and husky voice and a slightly paralysed tongue, a few original compositions, playing the accompaniment himself.”

Throughout his life, the great composer loved convivial company, and on the day he died he had given a dinner party at his house. After



Von Gluck (from a contemporary painting)

the meal the guests remained at the house while Gluck and his wife went for a drive. They had not been driving long when he had another seizure, and in a few hours was dead. Marianne survived him by ten years.

Why I am a Short-Wave “Fan”

(Continued from page 12)

But what about our old friends, the amateurs, on the twenty-metre band? I must say I can listen to them for hours on end. I suppose I shall get into trouble for calling them amateurs, they should be called professional experimenters. It's very interesting to know the size of somebody's antenna, but personally I don't care if there are or “aren't any.” Sorry, I couldn't avoid that one.

It is now 1.30 a.m., and before putting this pen to this paper I tuned in the twenty-metre band, and this is what I heard. I don't know what it means:

“Slight QSB.”

“CQ calling.”

“Yes, old man, I quite agree with you, old man.”

“I've got five hundred nice juicy watts here.”

“Not getting England as well as we should.”

QRX a minute, Harry.”

“I still QSO, QXR.”

“This is Hillside, New Jersey, W2HAQ, in Indiana.”

“We just added two more microfarads in the output.”

Well, that requires some translation, but one brave fellow said he was going to eat his dinner while his pal replied; he said he was taking the loudspeaker into the kitchen.

Now to go back to early days of broadcasting. Only two days ago I found my original crystal set. I connected up the aerial and earth, clamped on the earphones, and there I was starting all over again; splendid reception.

Well, da-di-da, as we say on the twenty-metre waveband.

His Grace
THE ARCHBISHOP
OF CANTERBURY

writes:—



I cordially commend this Appeal. The Royal Cancer Hospital deserves all the help which can be given to it in its ceaseless endeavours to

combat this scourge by patient research into its causes, and by skilled and sympathetic treatment of those who suffer from it.

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READERS' FORUM

Low-Power French Stations

"Extraordinary reception" seems about the right description for the tuning in of Pori at R7 by a Northampton reader. Inspired by his success I went searching for it on the afternoon of November 19. I had just located it rather faintly when 100 kW Marseilles started up and spoilt everything.

I was more fortunate with Falun, and this station came through at a fair strength.

Mr. P. Craig's reception of Radio 37 beats me. I have tried several times, but with no success. Agen, power 1.5 kW, on the same wavelength, however, is first-class listening with a wide margin of volume. In fact, several low-power French stations are received well here. On November 19, Agen, Radio Cité (0.8 kW) and L'Île de France (2 kW) were all broadcasting late dance music. No more volume control to ensure loud and clear reception was needed than is required for the English transmitters.

Hertford.

RONALD J. C. YOUNG.

INTERFERENCE

Nous avons en Belgique également fort à nous plaindre des émissions qui troublent nos auditions des postes de Budapest I, Athlone, Stuttgart, parfois même de Vienne et de Florence. Je n'ai cependant encore jamais remarqué de morse en dessous de Bruxelles I (INR). Les postes mentionnés donnent très souvent des programmes de choix, et nous

regrettons de ne pouvoir les capter régulièrement avec succès. Tant comme votre correspondant, Monsieur R. Evans, de Blackpool, j'ignore le nom, l'emplacement, et la longueur d'onde du poste qui trouble entièrement cette bande.

On nous gave de troubles: le morse qui intervient chaque matin dans les émissions de 7 heure du Journal Parlé de Paris PTT. Le sifflement continu qui accompagne l'émission de ce poste jusque tard dans l'après-midi, le sifflement du poste de Cologne, qui s'il est plus fort est également de plus courte durée, l'hétérodynage de Hilversum I et de Brasov, tout cela ne pourrait-il pas être reprimé? Ne pourrait on pas faire le nécessaire pour remédier à tout d'inconvénient?

FRANCIS CUYPERS.

Schaerbeek-Bruxelles III,
Belgique.

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

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TELEVISION NOTES AND PROGRAMMES

Christmas Programmes for Children

By "THE SEER"

THE same fascination that draws a crowd to a mechanical model in a shop-window attracts children to the television screen. Here is "something moving," whether it be the Topsy Turvy Dancers or merely a University professor wagging his head as he talks—and probably the pictorial interest lasts longer with children than with adults. When, as happens in the next week or two, many of the television programmes are specially arranged for juvenile consumption, parents may be grateful that the Alexandra Palace transmitter closes down at 10 p.m.

By no means all the programmes are devoted to children, but a very definite "season" opens for them on December 20, with afternoon and evening displays of the newest mechanical toys, including motor race tracks and streamlined trains. A few children will be present in the studio, so that their watching colleagues can extract a vicarious pleasure from seeing the toys played with. Another treat for children of all ages up to ninety will be the two transmissions of *Alice in Wonderland*, on December 21 and on Christmas afternoon. "Alice" will be played by thirteen-year-old Ursula Hanray, who will undergo a startling transformation when the cameras make her grow after swallowing the contents of the mysterious medicine bottle. The masque version of *Hänsel and Gretel*, already referred to in these columns, will hold children with the story alone. The Boxing Day pantomime, *Dick Whittington and his Cat*, is dedicated to young viewers, and—reversing the usual order—should only be seen by adults if accompanied by a child. The panto. will be repeated on New Year's Day.

Even the cabaret shows have been arranged with an eye to the juvenile audience. Harry Hemsley and Winnie will compe the Christmas cabaret on December 29, and, in addition to the Western Brothers, the acts will include foot balancing by the Three Nagels and tricks by Baby Doll, Texas Tommy's wonder pony which does everything but talk.

Children's programmes will continue through the school holidays. On December 30 a number of Æsop's fables will be presented in masque form by H. D. C. Pepler and Stephen Thomas to music by Mabel Wood-Hill. And on January 4 a full-blooded version of R. L. Stevenson's *Treasure Island* will test the studio resources to the utmost.

Film is still indispensable, not only as a stand-by during changes of scene, but for building up atmosphere in dramatic productions and extending the action beyond the studio walls. A case in point occurred during last week's presentation of *Once in a Lifetime*. The story ranged from New York to Hollywood, and during the hectic travels of the principal trio, film flashes of train wheels, with sound effects, gave a more convincing impression of the passage of time and change of place than any number of announcements.

The King's address to the Empire from Sandringham on Christmas afternoon will be relayed on television's sound wavelength, with a portrait of his Majesty in vision.

THE 49 m. WAVEBAND

I should be glad of the advice of any reader with regard to my difficulty in reception on the 49 m. waveband. I listen regularly, but find that most of the stations are very badly heterodyned and swamped by spark. I have tried varying the length of aerial without any improvement. Reception on the lower wavelengths is excellent. My set is a new 8-valve commercial model, and my position is about eight miles south of Manchester.

DONALD S. H. MCKEE.

Brooklands, Cheshire, November 25.

"FREAK RECEPTION"

With reference to the letter of Mr. G. A. Sampson in the current issue of *WORLD-RADIO*, it seems extremely doubtful if he hears Samara in daylight, a station of unspecified power about 500 miles beyond Moscow.

Unless he has definite proof to the contrary, I would suggest that he is receiving, not Samara and Kiev, but two Norwegian relays, both of which I receive at good strength—(1) Trondelag, etc., on 629 kc/s; (2) an unknown relay of Oslo on 830 kc/s approximately. I am not confusing this station with the Norwegian relays on 850 kc/s, given in *WORLD-RADIO*, which I hear also, though much less loudly.

The Oslo programme could be heard on all these three wavelengths this morning from 11.45 a.m. to 12.15 p.m. My set is an 11-v. superhet.

At Edinburgh Mr. Sampson will be well situated for receiving Norwegian stations in daylight, and I suggest that after sunset the proportionately greater increase in field strength of the wavelength partners or neighbours of these stations may easily render them inaudible. Wigan, December 12.

H. R. NUTT.

PROGRAMMES

Frequencies—Vision: 45 Mc/s; Sound: 41.5 Mc/s. All programme times shown below are approximate. From 11.0 a.m. to 12.0 noon each day, films intended for demonstration purposes will be shown.

MONDAY, December 20

3.0 p.m.—Selection of Christmas Toys for children, old and young.
3.10—Gaumont-British News.
3.20-4.0—"The Ghost Train," by Arnold Ridley.
9.0—Mr. Gillie Potter.
9.10—See 3.0.
9.20—British Movietone news.
9.30-10.0—"The Old Lady Shows her Medals," a play by J. M. Barrie.

TUESDAY, December 21

3.0 p.m.—Irene Kohler (Pfte.).
3.10—British Movietone news.
3.20-4.0—"100 per cent Broadway."
9.0—"Close-Up," a little Show.
9.20—Gaumont-British News.
9.30-10.0—"Alice in Wonderland," by Lewis Carroll.

WEDNESDAY, December 22

3.0 p.m.—"Marshal Your Facts."
3.20—Gaumont-British News.
3.30-4.0—"Picture Page."
9.0—"Marshal Your Facts."
9.20—British Movietone news.
9.30-10.0—"Picture Page."

THURSDAY, December 23

3.0 p.m.—Tommy Handley and Company in Eric Blore's war-time musical sketch, "The Disorderly Room."
3.15—"Little Red Shoes," a Hans Andersen story, told by Lydia Lopokova.
3.25—British Movietone news.
3.35—"Close-Ups," a little Show.
3.55-4.0—Noni and Partner.
9.0—Polite Wine-Drinking: discussion.
9.15—Gaumont-British News.
9.25-10.0—"Hansel and Gretel."

FRIDAY, December 24

3.0 p.m.—Coffee-Stall.
3.20—Gaumont-British News.
3.30-4.0—Jack Payne with his Band.
9.0—Irene Prador in songs.
9.5—"Drew the Pictures."
9.20—British Movietone news.
9.30-10.0—Jack Payne with his Band.

SATURDAY, December 25

3.0 p.m.—The Rev. Pat McCormick.
3.5—Irene Prador in Viennese Songs, and Russell Swann.
3.20—Mr. Gillie Potter.
3.30—Cartoon Film: "Musical Farmer."
3.35-4.10—"Alice in Wonderland."
9.0-10.0—Music-Hall Cavalcade.

LEAVES FROM MY LOG

By "Log-Roller"

DX WITH A PORTABLE

MANY people nowadays use portable or transportable receivers with built-in frame aeriels and there are those who pin their faith for the reception of European stations to the "fixed" receiver with an external frame, owing to the great usefulness of the frame's directional properties as an aid to selectivity. American medium-wave stations sometimes come in so strongly that they should, one imagines, be receivable with even a portable set. Can any reader claim to equal a feat of mine in the December small hours of a couple of years ago? I found trans-Atlantic stations coming in with such enormous volume on the big set that I fished out a straight 5-valve portable to see what it could do. With this, using the loud-speaker only, I brought in three Americans strongly enough for their announcers' words to be clearly audible at several feet. It would be interesting, too, to know what account non-portable sets with frame aeriels give of themselves as trans-Atlantic receivers.

A PUZZLE SOLVED

That reminds me of something that befell a friend of mine when he was using a very sensitive 8-valve superhet, specially designed to work from a frame aerial with sides about eighteen inches in length. He came to see me one day in a very perplexed state of mind. Though his set would bring in pretty well anything that was going in Europe, not excluding the smallest fry, he could not obtain a sound from medium-wave Americans with it. For a time I was as puzzled as he; then an idea occurred. I asked

if he was sure that his frame was properly oriented when his abortive attempts were made. He assured me that it was; in fact, he had gone to a great deal of trouble in that matter. He told me that he had carefully obtained the bearing from his station, near London, to New York by means of an atlas and that he always used a compass for setting the frame. And that explains everything. From a "Mercator" map in an atlas New York appears to bear about West-by-South, or ten degrees South of West from London. This seems reasonable, for the latitude of London is 51.30 N, and New York, which is obviously to the west, lies nearly nine degrees south of London on latitude 42.40 N.

SHORT-WAVE ECHOES

My thanks to those many correspondents who have sent reports about round-the-world echoes on GSJ. But most of them record what is quite a common phenomenon in the afternoons on this station—a single echo which gives its own peculiar effect. In my note of December 3 the echo that I referred to was not a single one, but a multiple echo caused apparently by the signal having travelled several times round the world. The correspondent who reported it said, if you remember, that when the word I occurred it made the announcer sound as if he were stuttering, I-I-I. I was rather puzzled at the time as to why echoes of one kind or another should be so frequent on GSJ's early afternoon transmissions, but should never be heard on those of GSH, whose frequency is so little different. An explanation suggested is that GSJ is directed East-and-West, whereas GSH is

directed North-and-South. Thus GSH's transmissions would have to pass over both the north polar and the south polar regions, where considerable attenuation usually occurs.

THE "GREAT CIRCLE" PATH

But the earth isn't flat, as the ordinary map shows it, and the shortest distance between any two places on its surface is a "great circle" path. If you have a globe handy, take a piece of cotton and stretch it over the surface so that it cuts both London and New York. You will find that the bearing has nothing southerly about it. Actually, it's nearly West-North-West, being some twenty degrees North of West. You can obtain true bearings from a map on a "great circle" projection with London as centre, or you can calculate them if you are versed in the art of navigation. Perhaps some sailor reader will give us landlubbers a hint or two on doing this.

THE MYSTERY STATION

You may recall the reports of a mystery station, whose announcer was apparently speaking Spanish, which is to be heard during gaps in the programme from Stockholm, on 426.1 m. (704 kc/s). I have since heard this station, and there is no doubt that it is a transmission from Spain. It has been suggested that it is Seville wandering from its proper wavelength of 410.4 m. (731 kc/s), but the other night I heard the announcer say "Radio-Valencia" several times, and a reader reports the same experience. It seems likely, therefore, that either Valencia is making use of a wavelength somewhere in the neighbourhood of 426 m. in the evenings, or that Seville is working on the wavelength and relaying Valencia, at times at any rate. Have any readers heard the call-sign of Seville? Or is that of Valencia always given?

There'll be NO 'ROUND THE WORLD RELAY' this Xmas

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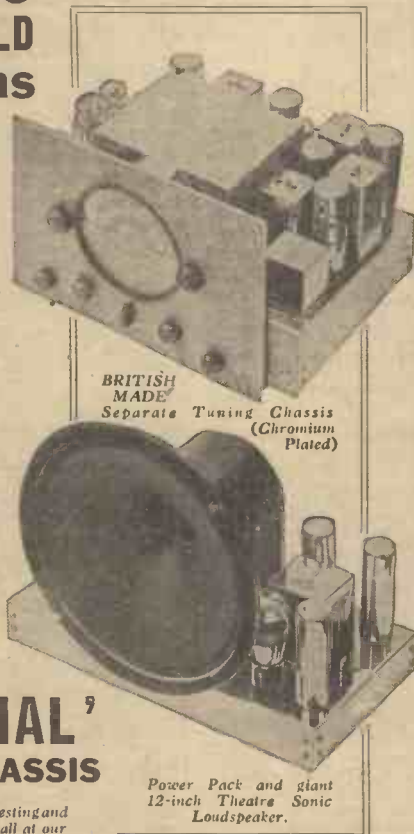
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0.120 0.240
0.300 0.600

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0-60,000
0-1,200,000
0-3 megohms.

India's "Festival of Lights" LISTENERS' QUERY SERVICE

The "Dewali" Celebration

EACH year, during the month of November, Hindu India celebrates a memorable victory of King Shri Ramchandra, the hero of the great Sanskrit epic, the *Ramayana*. Radio helped this year by transmitting from Bombay, Calcutta, Delhi, and Peshawar a commemorative programme which was heard all over the country. The following article, written on the day of the Festival, recalls the romantic story and the legends that have centred round this picturesque 2,000-year-old Hindu festival.

"Dewali"—or "Deepavli," to give the festival its full name—is essentially a festival of lights, and is celebrated all over India by every Hindu. It falls generally on the new moon day in the month of "Kartik," the ninth month of the Hindu calendar year. Its origin is lost in the mists of time. But the celebrations of this unique festival can be traced back over 1,500 years.

THE LEGEND

It is said that during the old days when the gods visited the earth there ruled in India a mortal king of the name of Bali, famous for his prowess in arms, his great generosity, and his deep devotion to duty. In a battle with the gods Bali captured all the celestial inhabitants, including the beautiful Lakshmi, consort and wife of Vishnu, the Ruler of the Heavens and the Protector of the Earth. After many negotiations and much persuasion Bali agreed to release all the gods, and Vishnu and Lakshmi returned home to their abode in Heaven. Night overtook the heavenly fugitive and he and Lakshmi resolved to spend the night on earth.

Bali's joy knew no bounds when he came to know that the heavenly host had agreed to stay on earth. He decreed that in honour of so rare an event all homes should be illuminated and that all mortals should rejoice. Even to-day, therefore, Lakshmi, the presiding deity of happiness and prosperity in Hindu mythology, is worshipped during the "Dewali" festival.

Another legend connects the festival with the return of the exiled monarch, Shri Ramchandra, to his capital.

The triumphal march home of the King Shri Ramchandra, the meeting of his brother Bhurat, who refused to accept the kingdom of India during his elder brother's absence, and the unheard-of rejoicing of the people of the country have been told in song and story. As long as Hinduism exists and Hindus live in India this romantic legend will not be forgotten. There is no festival of the Hindus at which the deeds of this hero king are not remembered, and "Dewali" is perhaps the most popular celebration of a great national event.

SEASON OF GOOD WILL

All homes are cleaned, new clothes are bought, sweets are distributed without reserve, Chinese crackers exploded in thousands, and every nook and corner of the country illuminated with tiny mud lamps in which cotton wicks soaked in oil burn for hours. The more modern-minded Hindus illuminate their dwellings with electricity, and multi-coloured candles, and there is great rejoicing. All debts of honour which can be cancelled are written off to-day and there is good will and cheer all over the land.

All Indian cities are a blaze of colour tonight. Feasts and family reunions mark the night, and little children will go to bed dreaming of next year's "Dewali."

R. L. R.

Which station was that?

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

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 System

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.

CALLING CQ-DX (Chingford); R. H. (Berkhamsted): A new station, operated by the S. African Broadcasting Corporation, testing; believe it is located at Klipheuvell (Cape Province); reports to be sent to Chief Engineer, South African Broadcasting Corporation and Overseas Communications Ltd., Pretoria, South Africa. **MEDINA (Newport):** W2XGB, Hicksville, testing out a new channel; address: Press Wireless Inc., P.O. Box 296, Hicksville, New York. **TOBY (Innerleithen):** Possibly COCH, Havana (Cuba), on 31.8 m. **AVITE (S. Farnborough):** (1) Sofia (Bulgaria), 100 kW, on 352.9 m.; (2) Radio Algiers. **SCHOOLBOY (Burton-on-Trent):** (40) the only U.S.S.R. station sharing the Belgrade channel is Kazan; (41) RRW, Sverdlovsk (U.S.S.R.), commercial station on 146 kc/s; (42) RW72, Tcheliabinsk (U.S.S.R.), on 577 kc/s; (43 and 50) RW32, Vladivostok (635 kc/s); (44) fourth harmonic of Hilversum (No. 1) or 640 kc/s. (45) the geographical position of Elista (U.S.S.R.) is 45° 15' 00" E; 44° 18' 45" N. (46) Radio Ardennes, Libramont, Belgium, on 1121.6 kc/s; (47) cannot trace; the nearest relay of Oslo is on 850 kc/s; (48) RW40, Gomel (U.S.S.R.), on 959 kc/s; (49) Ordjonikidze (U.S.S.R.), on 749 kc/s; (51) RW48, Elista, on 704 kc/s; (52) more likely to be second harmonic of Wilno (1072 kc/s); (53) regret, cannot trace; (54) there is no Russian station working on that frequency according to official lists; (55) RW54, Khabarovsk, on 580 kc/s. **HOMELESS (Bexley Heath):** Please number your queries. (1) HJ1A&P, Cartagena (Colombia), was last reported working on 31.21 m.; possibly HP5J, Panama City, on 31.23 m.; (2) apparently new Cuban transmitter, but we cannot, so far, trace the call-sign in the latest published lists. **HUGHES (Wellington):** PSH, Marapicu (Rio de Janeiro), relays programmes from PRF4, Rio de Janeiro, on 29.35 m. **BASIL (Pinner):** (a) W2XE, Wayne, does not broadcast on a channel lower than 13.94 m.; this would appear to be a second condenser dial reading; (b) the Oslo broadcasts are made through Jely on 31.48 m. and 49.02 m.; have you confused this transmission with that of SBG, Motala, on 49.46 m.? **RODNEYLIAN (Plumstead):** Possibly IZRO, Rome, testing; the station is entitled to use 48.7 m. among other channels. **KNOB TWIDDLER (Windsor):** (4) DZA, DZB, DZC, and DZE are point-to-point transmitters used for relays to foreign countries and do not carry out a broadcasting service proper; their wavelengths are: 31.01 m., 29.87 m., 20.15 m., and 24.73 m. respectively; (5) not Mc/s but metres; Italian commercial radiotelephony transmitter. **BLUE BOY (S.W.5):** HJ4AB, Medellin (Colombia), 11.8 Mc/s. **RUMBA (Liverpool):** COGF, Matanzas (Cuba), on 25.45 m. **W.3 (Chichester):** PENPUSHER (Slough); **ROVER (Wood Green):** WON, Lawrenceville (N.J.), on 30.4 m. **SWALLOW (Stidcup):** (a) vague, but possibly HJ3ABH, Bogotá (Colombia), on 49.9 m.; (b) CS2WD, Radio Renascença, Lisbon, on 50.21 m. **INTERESTED (Gloucester):** Possibly test by VUM, Madras, on 49.36 m.; the time would tally. **SAYS HODGE TO HALL (Torquay):** (1) tallies with second harmonic of Stockholm (213.05 m.); (2) probably Radio Antwerp; (3) background of Kalundborg which was broadcasting dance music at the time; (4) impossible to identify as there are several small transmitters still working on that wavelength. **CHINK (S.E.16):** (1) LR3, Radio Belgrano, Buenos Aires (315.8 m.); (2) LR6, Radio La Nacion, Buenos Aires (344.6 m.); (3) LS2, Radio Prieto, Buenos Aires (252.1 m.). **INTERESTED (Grantham):** Lopikerkapel (Holland) on 415.4 m. relaying Hilversum (No. 1) as per published programme. **MANWOODIAN (Ramsgate):** We do not know of any short-wave station rebroadcasting the Radio Luxembourg programmes; possibly a test relay by an amateur experimental transmitter. **KNARF (Bolton):** (1) COGQ, Calle 25, No. 445, Vedado, Havana, Cuba; (2) Radiodifusora HJ3ABH, Apartado Postal 565, Bogotá, Colombia. **NILLAD (Ipswich):** There is no short-wave relay of Radio Normandie (Fécamp) and we cannot trace any harmonic on a channel between 31.28 m. and 32.88 m.; the eighth harmonic falls on roughly 33.7 m. and the sixth (well heard) on 44.916 m. **MARGO (Brooklands):** (5) special transmission from Berlin to Brazil via point-to-point stations, namely, DZE and DZH, Zeesen, on 24.73 and 20.75 m. respectively; (6) YV5RH, Caracas (Venez.), Ondas Populares, on 46.88 m.; or YV1RH, Maracaibo (Venez.), on 46.95 m.; the former uses one single gong note as an interval signal, the latter 7 or 8 bells. **NOVO**

(Newcastle-on-Tyne): (1) Minsk (U.S.S.R.), RW10, on 1442 m.; (2) regret cannot trace; official lists do not give a U.S.S.R. transmitter on this channel; (3) possibly LS8, Radio Stentor, Buenos Aires, on 243.9 m. **BANANA (Blackley):** Too vague; regret, cannot trace. **TICH (Northwich):** (1) YV7RMO, Maracaibo (Venez.), on 6.07 Mc/s; no power stated; (2) W2XDV, New York, CBS, on 9.49 metres. **WORMWINKLE (Banwell):** If call-sign correct (international prefix LY), new short-wave transmitter at Kaunas (Lithuania) testing on 15.30 Mc/s; official call-sign is LY24. **PREFECT (Rothsay):** ZBW3, Hong-Kong, on 31.49 m. **SPINDLEBERRY (Birmingham):** W1XX, Millis (Mass.), on 31.35 m. relaying programmes from WBZ, Springfield, and WBZA, Boston. **ETHERWAVE (Bournemouth):** (1) there are several Japanese telegraphy and telephony transmitting stations at Taihoku (Formosa); you do not give any estimate of wavelength; (2) VUD, Delhi, on 49.34 m. **PLOPP (Writtle):** The broadcast was doubtless relayed by one of the Lawrenceville (N.J.) commercial transmitters, either WON, 30.4 m., or WOF, 30.77 m.; the call-letters heard (MQRAM) would appear to be those of a ship station, but they do not appear in the registered list. **NEDATS (Gorleston-on-Sea):** There is no relay of London Regional on the wavelength mentioned; might tally with second harmonic of West Regional taking the London programme at the time, namely 142.75 m. **PLASCO (St. Louis) (459a) non; PRF4, Rio de Janeiro (Brasil) relayé par PSH, Marapicu, sur 29.35 m.; (459b) non, pour le moment nous n'entendons plus LSX, mais cela ne signifie pas nécessairement que le poste ne fonctionne pas; il existe des transmissions régulières par LRX, LRU, et LSY; (460a) ne connaissions pas ce poste; l'émetteur clandestin allemand fonctionnait sur 28.98 m.; (460b) il est possible que vous avez entendu un relai de la transmission par PCG, Kootwijk, sur 31.97 m.; (460c) VUD, Delhi, sur 49.34 m. Prière de noter qu'un coupon doit nous être envoyé avec chaque question. **AK-AK (Welling):** (1) HI1J, San Pedro de Macoris (D.R.), on 51.15 m.; (2) the only two stations located at Santiago de los Caballeros so far reported are HI9B (49.59 m.) and HI3U (49.89 m.); possibly a new channel adopted by one of these transmitters; (3) YV5RH, Caracas (Venez.), Ondas Populares, on 46.88 m. **VERE (Wallasey):** Radio 37, Reuil-Malmaison, on 360.6 m.; (2) L'Île de France (Paris), 219.6 m.; call: ici poste de l'Île de France; interval signal: gong; opening and closing signal: fanfare of trumpets. **REPAS (N.W.3):** You do not say what you heard; there is no English station working on a channel in that section of the band, but you may have picked up a background of Athlone on 900 m. **TWIDDLER (Newcastle-on-Tyne):** (1) surely seventh harmonic of Radio Strasbourg (PTT) on 49.89 m.; (2) this would also appear to be a harmonic of a medium-wave transmitter, but details given are too vague to permit identification; (3) harmonic of Radio Strasbourg on 69.8 m.**

AMATEUR TRANSMITTERS

The identity of amateur transmitters may be found in the "Radio Amateur Call Book." The Autumn Edition (price 6s. post free) can be obtained from the BBC Publications Management Offices, 35, Marylebone High Street, London, W.1. The 1938 Edition of the "Radio Amateur Handbook," price 5s. 6d. post free, can also be had from the above address.

Esperanto Transmissions

Sunday: Hilversum 1, 10.40 p.m. Prelego. Monday: Sottens, 5.20 p.m. Kurso de S-ro Bouvier. Rome (and 2RO 31.13 m.) 9 p.m. Generalaj Novajoj. Tuesday: Hilversum 1, 6.20 p.m. Kroniko. Tallinn, 7.0 p.m. Pri la Estona Vivo. Kaunas, 8.20 p.m. Nia Anguleto—Litovujajoj. Rio de Janeiro (31.58 m.), 11.30 p.m. Informo pri Brazilo. Wednesday: Paris (PTT) and relays, 2.00 p.m. Elementa Kurso. Lyons (PTT), 8.05 p.m. Esperanta Kroniko. Thursday: Rome—as for Monday. Saturday: Hilversum 1, 5.10 p.m. Informoj. Rome, 6 p.m. Turismo en Italujo.

IDENTIFICATION COUPON (No. 462)

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

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

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A New Radio Set for Xmas

If you contemplate the purchase of a new receiver it is to your advantage to know what points to look for. This article, by HARLEY CARTER, describes the features of modern sets

THESE notes are intended as a general guide to the main features of modern receivers, and to show how these features, often concealed behind confusing technical names, affect the performance of the set.

Before going into details, however, it should be stated, quite baldly, that the prime functions of a receiver are, first, to make available to the listener as many as possible of the programmes radiated, and, second, to reproduce those programmes as faithfully as possible. Secondary, though highly desirable characteristics, are: simplicity of operation, avoidance of errors in adjustment on the part of the user, and good appearance. Practically all the refinements introduced in recent years have been for the purpose of improving over-all performance in one or other of these directions.

First, then, let us consider "availability of programmes." The capabilities of a receiver in this direction are governed by two factors—its sensitivity and its wave-range. Practically every commercial receiver today—except the inexpensive three-valve models—is what is known as a "superhet" and is sufficiently sensitive to receive the majority of worth-while programmes radiated on the wavebands to which it can be tuned, especially if used with an efficient aerial system.

Broadly speaking, the greater the number of valves it possesses, the greater the sensitivity, although it should be mentioned that some of the more expensive sets have additional valves which do not add to the sensitivity but fulfil other functions. However, such sets, being in the *de luxe* class, are invariably of the highest order of sensitivity.

THE BROADCASTING WAVEBANDS

The wave-range of the receiver is important because programmes are radiated on a number of groups of wavelengths. Ordinary broadcast transmissions use the long waves (between 1,000 and 2,000 metres) and the medium waves (between 200 and 600 metres). Good fare from the British Isles and from Continental Europe can be obtained from sets tuning to those bands only. But the development of broadcasting services on the short waves—between 12 and 50 metres—and of the television service on the ultra-short waves—below 12 metres—has led to the corresponding development of so-called "all-wave" sets which can be tuned to a number of wavebands below the medium waves.

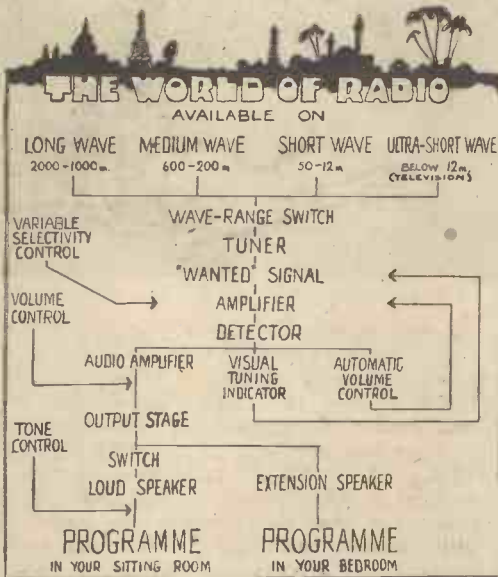
For maximum programme capacity, therefore, choose an "all-wave" set, but remember that tuning on the short wavelengths is much more critical than on the broadcast bands, so that it will be an advantage if your new set incorporates special means for accurate adjustment. Such devices include a special slow-motion drive on the tuning knob, and the subdivision of the short-wave ranges into two or more sections, each of which can be brought into action by the wave-change switch. For example, the 12 to 50-metre band may be split into two, making—with the long and medium wavebands—four wavebands. Some sets have a further position of the wave-change switch to permit the television "sound" programme to be heard.

In general terms, the more wave-range sections your set has, the more stations you will be able to hear, and the easier will it be to tune them in.

Next must be mentioned those features which make for simplicity and ease of operation. Unfortunately, it is not yet possible to make tuning-in as simple as dialling a number on the telephone, and the operation still calls for a modicum of skill and common sense on the part of the user. After switching on the set, the first operation must be to select the wave-range on which the wanted station is to be found. This, in the modern set, is simplified by a wave-change switch which is not only clearly marked with the wave-range covered by each position, but sets in operation a definite indication by way of an illuminated panel, and distinctive coloured lights on the tuning dial. Thus, for long waves, the dial may be illuminated in red, for medium waves white, and for short waves, green.

TUNING ARRANGEMENTS

It is now necessary to turn the tuning knob to the correct position for the station required. This is facilitated by the provision of station names on the tuning scale or dial. Many and ingenious are the schemes adopted by different



makers to render the finding of the correct station easy. Station names may be arranged alphabetically with lines drawn to appropriate positions upon the dial; or they may be arranged geographically. Dials may be round, vertical, or horizontal; they may be stationary with moving pointer, or may revolve with respect to a fixed pointer. But whatever scheme is adopted by the manufacturer, the sole aim is to make station selection as rapid and easy as possible.

Having found your station, further adjustment may be necessary to bring it in with the best possible tone and at the required volume. Unfortunately, there are so many programmes on the air today that the programme from one station may, in certain circumstances, interfere with that from a station operating on a near-by wavelength.

The tuning system of a receiver consists essentially of electrical "filters" to exclude unwanted programmes, and the more efficient and the greater number of these tuned circuits contained in a set the greater the "selectivity"

of the circuit. But by an unfortunate conflict of technical considerations, a highly "selective" set—that is, one which gives efficient separation between neighbouring programmes—also reduces the fidelity of tone by cutting off the higher musical frequencies, thus giving a low-pitched tone and making speech difficult to follow and music devoid of much of its natural "sparkle."

TONE AND SELECTIVITY

What is known as a "tone control" is a device which permits the proportion of high-note and low-note reproduction to be varied, either to compensate for some of the musical losses introduced by a highly selective circuit, or to make a further cut in high notes in order to remove the last traces of interference. A still better device, now found on many receivers, is a "variable selectivity control," which enables the set to be made highly selective if much interference is experienced, or less selective—and therefore giving better reproduction—when there is no interference. With this control the most satisfactory compromise between reception conditions and programme fidelity can be quickly obtained.

The "volume control" needs little explanation; it is used simply to vary the loudness of the programme to suit individual taste. In some receivers the volume-control knob also functions as the "on-off" switch.

AUTOMATIC ADJUSTMENTS

Most modern sets have certain automatic features to compensate for the effects of varying reception conditions, or to improve reproduction. "Automatic Volume Control," for instance, is almost universal. Its effect is to keep the volume of the programme substantially uniform even though the distressing natural effect known as "fading" should cause the incoming signal to fluctuate in strength. It also ensures that the weaker stations will be amplified to a greater extent than the stronger transmissions, thus improving the performance on feeble or distant stations and avoiding the risk of "blasting" and distortion on powerful transmissions from stations relatively near.

It is, however, a little difficult to decide purely by ear when a station has been correctly tuned-in on a set fitted with automatic volume control, and a device known as a "visual tuning indicator" is therefore often provided. In one form this comprises an additional valve which also incorporates a miniature cathode-ray tube which gives maximum light when a station is correctly tuned-in. Other forms rely upon a varying column of light, or the maximum deflection of a pointer over a scale to give an indication of correct tune.

Some of the more elaborate sets have an "automatic tuning" feature which brings the station into correct tune after the listener has tuned it in approximately, thus correcting any slight error of judgment on the part of the owner.

QUALITY OF REPRODUCTION

Now a few words about quality of reproduction. The signal passed to the reproducing instrument—the loudspeaker—is ultimately provided by the valve or valves in the last "stage" of the set, and circuit design is almost entirely directed towards making the signal applied to the last stage as faithful a copy of the original programme as possible. In the last stage, however, a certain amount of distortion is possible, especially on loud passages of music, or when the volume control is turned to the maximum position. If, however, the output stage is designed on liberal lines, so that it will give a large maximum power, this risk is greatly reduced. A maximum output of 3 watts, for

(Continued at foot of page 19)

The Engineer who Hated Jazz

By "DECIBEL"

JOHN ARTHUR HIGGINBOTHAM was an engineer in the control room of a broadcasting station—one of those men who sit with one hand on a control knob, their eyes on the pointer of a meter, and listen to the programme being sent to the transmitter and regulate its strength.

These men are actually paid to listen to programmes, whereas most of us are compelled to pay ten shillings a year for the privilege of listening to only a very small fraction of what John Arthur and his colleagues are allowed to hear.

To be strictly correct, I should say "was allowed to hear" in the case of John Arthur, because he now has to pay for his listening like the rest of us; and I will now proceed to tell you why.

You might think that a control engineer has a nice, soft job listening to the wireless programmes all day long, but on reflection you will no doubt appreciate that there is quite a big difference between being free to choose what you will listen to and having to listen to everything—whether you like it or not. Whatever the ordinary listener thinks of the programme he can always switch off if he wants to, but the poor control engineer has to go on listening from morning until night, whatever his personal tastes may be.

John Arthur Higginbotham was a fairly ordinary sort of person, without any particularly violent likes or dislikes, when he first became a control engineer. For the first few months he derived quite a lot of enjoyment from most of the programmes, and even those in which he was not particularly interested aroused no feelings of antipathy in him.

But gradually a change took place. He began to develop a violent dislike to jazz music and crooners. He could listen to talks to housewives, farmers' bulletins, chamber music, and most of the other items, without turning a hair, but continual listening to jazz began to affect him considerably.

Have you ever tried to imagine what your own feelings would be if you were compelled to listen to several hours of modern jazz and swing music practically every day of your life, with the knowledge that you couldn't switch it off if you wanted to without running the risk of losing your job?

You might, of course, be a jazz fan, in which case it would be rash for me even to attempt to guess at what you might be capable of

putting up with; but if you are a jazz fan you will not be able to understand the case of poor John Arthur Higginbotham, so there is no point in your reading any further. I am assuming my readers are ordinary normal human beings.

Well, to return to John Arthur, he began to show signs of the strain to which he was being subjected. He lost weight, his eyes began to have a sort of haunted look, his nerves were jumpy, and whenever he had to control a programme of jazz music it seemed as much as he could do to remain at his post. Medals have been awarded for less devotion to duty.

The climax came one Christmas Eve. Dance



"If they want hot music they shall have it"

music was being played by Jacko and His Hooligans from the Hotel Palatial, and poor John Arthur was on control. He was alone, the other engineers sharing late duty with him had slipped out for an unofficial celebration at the local hostelry, before it was time for the landlord of that establishment to make his nightly announcement which corresponds to the announcer's "Good-night, everybody, good-night."

John Arthur was, I repeat, all alone. He hung on grimly for a time and then he suddenly had an idea. His face lit up with the first smile that had been there for weeks.

"If they want hot music," he said to himself, "they shall have it."

He removed his headphones and hurried from the control room, having first turned back the control knob a little so that Jacko and His Hooligans would not blow up the transmitter if they had one of their fairly frequent outbursts.

There was a tape recording machine in an adjoining room and John Arthur hastily arranged it to play *backwards* a tape recording of a musical show which had been broadcast earlier in the evening. Even if you have never heard a record played backwards you can imagine to some extent what this would sound like.

He then put the first two gramophone records he could find on to two gramophone turntables, adjusting the turntables to revolve as fast as they could, which was considerably higher than the proper playing speed. Returning to the control room, he plugged through all these three sources to the control desk so that he could mix them and superimpose them on the programme.

Just as he put on the headphones he heard the next tune being announced from the Hotel Palatial. By a remarkable coincidence this happened to be a new number called "You Ain't Heard Nuffin Yet." John Arthur immediately faded in his own "arrangement"—the tape and disc recordings—and listeners heard hot music the like of which had never been heard before.

When he thought the tune from the hotel would be drawing to an end, he switched over his 'phones so that he could hear the programme incoming from the hotel before it became mixed with his own additions, and when it finished he faded-out the recordings in time for listeners to hear the next tune quite normally. So far as listeners were concerned, therefore, they had heard a new tune called "You Ain't Heard Nuffin Yet," which demonstrated an entirely new style of music.

The sequel to John Arthur's attempt to get a little of his own back was not quite what he had expected. He was prepared for a terrific row and most likely the sack, but even *his* strong views about jazz fans had not led him to have the slightest idea that these fans would take his composition seriously.

But they did. Both Jacko and the broadcasting authorities were inundated with letters from jazz fans expressing their great appreciation of this new tune, "You Ain't Heard Nuffin Yet," and the wonderful new style of music it introduced. Which only goes to show . . . ?

John Arthur did not get the sack, I am pleased to say, but he was transferred to the Effects Department where, I understand, he is a great success.

A New Radio Set for Christmas

(Continued from page 18)

example, corresponds to much more sound than is required for family listening, but is only just sufficient to avoid overloading and distortion on particularly loud passages, grand finales, and sudden sound effects. The greater the "maximum undistorted output" of the set, therefore, the bigger will be the factor of safety and the better the reproduction at any volume. A set with what is known as "push-pull" output; that is, employing two valves arranged in a special way, also avoids much of the risk of distortion.

Finally, something about simplicity of operation. The various control features necessary for good performance with a modern set under

present-day conditions tends to increase the number of knobs and handles. Makers have, however, shown much ingenuity in devising methods by which several controls can be operated by one knob. These multi-purpose controls are not mere stunts; they definitely simplify the operation of the receiver yet render control perfectly flexible to meet every working condition.

ADDITIONAL FEATURES

If space permitted, much could be added about features making for general convenience, but on this subject it must suffice to suggest that, unless the new set is a radiogram, it should have sockets for connecting a gramophone pick-up; that it is desirable that connecting sockets be provided to permit an extension

speaker to be taken to another room, and that a switch be fitted to cut out the speaker on the set when desired, leaving only the extension speaker in operation. For those who like to listen after going to bed, a remote control for switching off the set from the bedroom is an advantage; and another point which the purchaser of a new set should look to is the visibility of the tuning dial. If you intend to stand your set on a low table, for example, see that the position of the dial does not involve kneeling on the floor in order to see it.

Of course, your new set must "go" with the rest of your furniture. There should be no difficulty in arranging this, because in addition to the popular walnut, many other beautiful woods are now used for cabinets, and various colours of "bakelite" cabinets are also available.

SOLVING THE GIFT PROBLEM

THE choice of suitable Christmas gifts for one's friends and relations is an annual problem that is often rather difficult to solve. When the person for whom the gift is intended happens to be a radio enthusiast, there are numerous possible solutions of the problem, even when his or her interest is mainly non-technical, though in the latter case the choice is more limited.

There are many presents that would be appreciated by listeners, whether "technical" or otherwise. Anyone who has a set that has been in use for some time would be sure to appreciate a new set of valves. If the particular model is known, any dealer should be able to supply the correct set of valves. Even though a single replacement may not always make a very marked improvement, a complete set will usually work wonders, especially if the receiver has been eighteen months or more in continuous use.

A new set of batteries is another item that should be appreciated by a battery-set owner, or perhaps an H.T. accumulator that can be charged from the L.T., or a battery-charger if he happens to have access to A.C. mains. Where mains have recently been installed and a battery set is still in use, an H.T. eliminator with L.T. trickle charger combined, would practically convert the receiver to "mains" operation. The advice of a competent dealer should be sought, however, as to the suitability of an eliminator for a particular receiver.

EXTENSION LOUDSPEAKERS

An extension loudspeaker is a very useful item, and would probably be still more appreciated if a coil of suitable extension wire and plug and socket connectors were sent with it, so that it could be put into immediate use. If the type of receiver is not known, it is possible to get a speaker with a "universal" matching transformer, so that it may be adapted to any type of receiver. Cabinet speakers can be obtained at from about twenty-five shillings, or even less. If an extension speaker or speakers is already in use, a remote control outfit, costing from about thirty shillings, would enable the set to be switched on and off from an extension point.

Where interference from mains apparatus is troublesome, a useful gift would be a complete interference suppression equipment for the receiver. A special aerial with screened down-lead may be obtained for about thirty-five shillings, while a mains-lead suppressor costs about twenty-five shillings. The latter would not, of course, be required for a battery receiver.



The short-wave enthusiast might like a supply of wire, insulators, transposition blocks, etc., for experiments with short-wave aerials. Such a kit is obtainable for about twelve shillings. Another item that might be appreciated by the short-wave enthusiast, especially if he is using a battery receiver, is a pair of headphones. The prices range from about fifteen shillings for the ordinary type to about three guineas for the piezo-crystal type.

HOME "BROADCASTING"

With the party season at hand, a "home broadcasting" microphone would help to provide much amusement. The quality of reproduction from the more expensive microphones will, of course, be better than from the comparatively cheap models, but the latter are usually rather more sensitive. An expensive microphone will quite probably require an extra stage of amplification between it and the broadcast receiver, while a comparatively cheap "solid back" microphone—costing, perhaps, from five to thirty shillings—will usually give sufficient output to be connected directly to the pick-up terminals of a receiver, through a suitable microphone transformer. For one who takes radio more seriously, and has, perhaps, an amateur telephony transmitter, the better the microphone the more pleased he should be, since he can easily arrange for the extra amplification required.

Most receivers are fitted with gramophone pick-up sockets, but comparatively few listeners make use of them. A complete unit consisting of motor and pick-up could be mounted on a simple cabinet by any amateur carpenter, who would then only require a few records to make full use of the pick-up sockets. These units are obtainable fitted in cabinets of various types, and are known as "playing desks," quite a useful arrangement being a cabinet which acts as a stand for a table-model receiver.

A good receiver will always be a welcome present. One who already has a receiver might like a portable or "midget" mains receiver. A compact, easily-carried receiver is useful for anyone who travels much, and is also very useful when anyone is laid up. The writer has known several instances where a "midget" receiver has given much pleasure to a patient in a hospital. The ardent short-wave enthusiast would probably be very interested in a "communication type" receiver specially designed for DX operation and covering the bands in which he is particularly interested.

TESTING EQUIPMENT

To the experimenter a meter is always welcome, especially one that will perform a wide range of tests. Meters are items on which one can spend almost as little or as much as one likes. A seven-and-sixpenny 3-range meter will enable the battery set owner to check the condition of his batteries, and will let him know when replacements are necessary, while the technical expert can perform innumerable tests with a multi-range "universal" meter costing, perhaps, two or three pounds.

Components are not always "safe" items to choose, unless special requirements in that direction are known. One should be quite safe, however, in giving someone particularly interested in home construction a complete set of parts—a "kit set" complete with blueprint—for a receiver or short-wave adaptor or converter.

Amongst inexpensive items that might be considered are wireless handbooks, diaries, log-books, etc., obtainable at prices from, say, two-and-sixpence. If a technical book is purchased, one should make sure that it is not one already possessed, and that it is not too elementary or too technical for the person for whom it is intended.

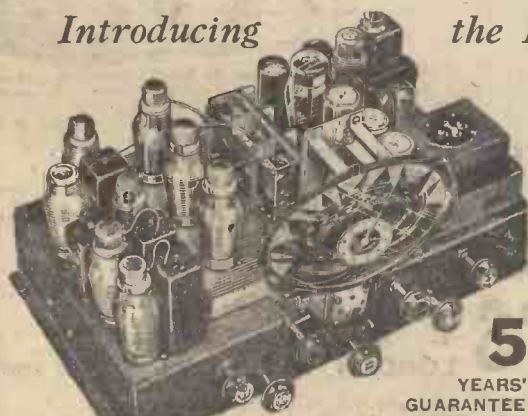
Perhaps some of these ideas will be useful when considering a present to oneself—if there is anything left with which to buy it!

A. W. BEATT.

Introducing

the New

'HOMELAND' "EMPIRE TWELVE"



5

YEARS' GUARANTEE
(valves 12 months).
American designed
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The Empire's Finest Radio

Christmas "Dialling" on the Short Waves

with "ONDA CORTA"

MY calendar informs me that Christmas Day is to be on a Saturday, and as, no doubt, many will be home in good time on Friday evening, I will plan my suggestions for your Christmas short-wave listening to begin then.

I, for one, will certainly try for VQ7LO (49.33 m.), CR7AA or CR7BH, the popular Americans W2XAD-W2XAF, W1XK, JZJ-JZI and the new Klipheval ZRH on 49.92 m. By 20.00 the Cubans should prove entertaining and W8XK (48.86 m.) quite strong, while old Father Time could be cheated by tuning-in Tokio's European transmission between 20.00 and 21.00—i.e., on Christmas Day in Japan.

Yet another step could be taken into the Christmas Day of the East by logging PMN (29.24 m.) or one of the NIROM group, at 23.00, when they will probably be broadcasting appropriate music or a religious service.

LATE EVENING PROSPECTS

From this time until midnight it would, perhaps, be worth while to listen to the various South Americans just to ascertain whether they celebrate in any way even if only by putting a little extra kick into their rumbas! Just after midnight—and, maybe, preparatory to adopting the rôle of Santa Claus—I suggest that old Father Time be given one more shock by tuning back to the day before—or Christmas Eve in the New World—and then by delving into the morning of the day after by reverting to PMN or any of the Europeans! Out of curiosity I intend to tune in RAN (31.26 m.) or RKI (39.79 m.) and then on to the vociferations of the two Spain's conducting their etheric war in the pacific (?) 40 m. amateur band.

At this hour slumber should be sought (after having distributed appropriate presents) and no alarm clock will be necessary to wake you a few hours later (that is, of course, if you are blessed with a family of juniors). You should then arise, manfully, at 07.00, or so, and diligently search the 20 m. amateur band for VK's, W6's and W7's, but as you are unlikely to hear more than there are threepenny bits in a landlady's Christmas pudding, I think it would be advisable to (a) look for VLR (31.32 m.), which should then be worth attention, or (b) return to bed!

After the usual formalities of breakfast, the 40 m. amateur band should prove entertaining, while the 31 m. band could be "combed" for VK3ME, VPD, or ZRX (on 31.5 m. until 12.30) —Zeesen and reception conditions permitting.

AFTERNOON LISTENING

For my own part, I shall not make use of the receiver during the dinner-hour; not only because I shall wish to concentrate on the good things before me but because I find the wearing of headphones most inconvenient. For the listener who runs a modern superhet, however, I recommend W2XE (13.94 m.)—or the Zeesen transmitters—to provide entertainment at this time. In the afternoon advantage could be taken of the fare offered by the same stations or W3XAL (16.87 m.) from 14.45, W2XAD (19.56 m.) from 16.00, or the Eastern "stars" PMN, PLP, and YDC, before 15.00. ZBW3 (31.51 m.) could also be looked for prior to 14.30, and should prove interesting if heard.

I must say that I consider it would be inadvisable to fiddle with the receiver during the

evening's revels, although perhaps it could be approached under the pretence of utilising it for a game of musical chairs by tuning in a DX transmission from a station subject to severe attacks of fading!

Later, when peace reigns once more, better use can be made of the set. By this time revelry should be at its height in the New World, and special attention may be given to W1XK, W2XAF, and W8XK, also to ZRH (49.92 m.) if before the end of its schedule at 21.00. The locals, such as OZF, LKJ, OER2, YUA, ZRO, and CS2WA should also be worthy of an audition and, later, the Canadian CJCX (49.92 m.), W3XAL (49.18 m.) and the Latin-Americans.

SUGGESTIONS FOR SUNDAY

On the Sunday, additional thrills could be had by getting up at 04.00 (if enough energy remains!) in order to search for VE9HX (48.9 m.) with his messages for the Far North, and VK2ME (06.00 to 08.00). Such hours, however, will only be dreamt of by me!

In the afternoon I hope to be vigorous enough to look for XGW (Shanghai, 28.79 m.) with his usual English news bulletin at 14.00; to disentangle PMH's (44.6 m.) weird native renderings from the surrounding noise level just after, and then to amuse myself by logging all the South African amateur telephony stations available on 10 m. between 15.00 and 16.30, and, finally, to seek the entertainment of PCJ's African programme in the evening. On the Monday the ether could be searched in a similar manner to that of Friday or Christmas Day, but, however you decide to plan your etheric tours this holiday time, beware not to offend Aunt Agatha, or neglect your social obligations and be very tactful should the domestic authorities intervene!

Commercial Short-Wave Stations

The following list will be found of assistance for calibration purposes
Stations marked * transmit telegraphy only.

	Call	Mc/s	m.
Bandoeng (Java)	PLV	9.41	31.86
Bangkok (Siam)	HSP	17.74	16.91
Bermuda	ZFB	10.05	29.84
Brentwood (New York)	WDU	14.69	20.41
Budapest (Hungary)	HAS2	13.68	21.93
Budapest (Hungary)	HAT2	6.84	43.86
Cairo (Egypt)	SUR	6.78	44.25
Cairo (Egypt)	SUV	10.05	29.84
Cairo (Egypt)	SUW	11.91	25.19
Cairo (Egypt)	SUY	7.82	38.34
Cairo (Egypt)	SUZ	13.82	21.71
Coltano (Italy)	IAC	12.79	23.45
Coltano (Italy)	IAC	6.65	45.11
Drummondville (Canada)	CGA4	9.33	32.15
Drummondville (Canada)	CGA3	13.28	22.58
Drummondville (Canada)	CGA	18.18	16.5
Lawrenceville (New Jersey)	WKF	19.22	15.61
Lawrenceville (New Jersey)	WLA	18.34	16.36
Lawrenceville (New Jersey)	WMA	13.39	22.4
Lawrenceville (New Jersey)	WMF	14.47	20.75
Lawrenceville (New Jersey)	WOF	6.75	44.41
Lawrenceville (New Jersey)	WOF	9.75	30.77
Lawrenceville (New Jersey)	WOK	10.55	28.44
Lawrenceville (New Jersey)	WRN	19.82	15.14
Marion (Mass., U.S.A.)	WCC	12.64	23.72
Monte Grande (Argentina)	LQC	17.66	16.99
Monte Grande (Argentina)	LSD	8.83	33.99
Monte Grande (Argentina)	LSI	9.80	30.61
Nagoya (Japan)	JNB	13.88	21.61
Nagoya (Japan)	JNH	7.82	38.36
Nagoya (Japan)	JNI	12.20	24.59
Nagoya (Japan)	JNJ	13.94	21.51
Nagoya (Japan)	JNE	10.16	29.53
Nagoya (Japan)	JNA	8.89	33.41
Nagoya (Japan)	JNC	17.96	16.7
Nagoya (Japan)	JNG	19.12	15.69
New Brunswick (New Jersey)	WRJ	9.46	31.71
Ocean Gate (New Jersey)	WOO	8.56	35.05
Ocean Gate (New Jersey)	WOO	4.75	63.12
Rio de Janeiro (Sepetiba) (Brazil)	PPX	20.72	14.48
Rio de Janeiro (Sepetiba) (Brazil)	PPU	19.26	15.58
Rio de Janeiro (Sepetiba) (Brazil)	PIH	11.93	25.15
Rio de Janeiro (Sepetiba) (Brazil)	PPW	10.86	27.62
Rocky Point (New York)	WAJ	13.48	22.26
Rocky Point (New York)	WEA	10.61	28.28
Rocky Point (New York)	WEC	8.93	33.59
Rocky Point (New York)	WQF	17.92	16.74
Rocky Point (New York)	WRK	13.93	21.53
Rocky Point (New York)	WRJ	9.46	31.71
Rocky Point (New York)	WKQ	16.00	18.75
Rocky Point (New York)	WQV	14.80	20.27
Rocky Point (New York)	WQN	5.26	57.03
Rocky Point (New York)	WQX	20.18	14.87
Shanghai (China)	XGR	11.54	26
Vienna (Austria)	OEK	7.39	40.6
Vlona (Austria)	OER	10.00	29.9

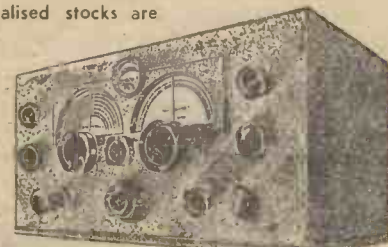
COMMUNICATION TYPE SHORT-WAVE RECEIVERS

For those who take long-distance short-wave reception seriously, something better than the ordinary all-wave instrument is needed.

The so-called "Communication Receiver" is one made to the exacting standards of the expert.

Used by research and amateur stations throughout the world, and it is only with such a professional instrument that you can hope to locate and the particular station you require.

Two such instruments from our specialised stocks are briefly described below.



RME-69. The receiver by which others are judged. Covers continuously from 9 to 550 metres. Accurately calibrated, full band spread. Fitted with R meter. Price of "Crystal Gate" model £38.0.0.

HALLICRAFTER 1938 "SKY-CHIEF"

The smallest "worth while" Pro's receiver. 7 valves, including one stage radio frequency. Wave-range 16 to 550 metres. Beat oscillator. Price Complete £12.10.0.

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LONDON, W.1. Phone Gerrard 2089

Midland Address for Callers Only—
41, CARRS LANE, BIRMINGHAM. Phone Midland 3771.

Short-Wave News-Reel

Compared
by "RANGER"

WITH only a week to Christmas, short-wave reception conditions certainly seem to be improving—a good omen, I hope, for the festive season, when many, no doubt, will be putting in overtime at the set.

From this week's contributions I have selected four—of musical, instrumental, or general interest—purposely omitting some dealing with war and strife, which are hardly appropriate to the season of peace and good will.

METROPOLITAN OPERA

On December 4 the NBC inaugurated its seventh consecutive season of Saturday Matinées broadcast from the Metropolitan Opera House, New York. This News-Reel describes the second of these broadcasts—which will be continued each Saturday until March 20—heard on a four-year-old 11-valve all-wave commercial superhet.

AT 19.00 G.M.T. on December 11, W2XAD relayed from the Metropolitan Opera House, New York, a really excellent performance of Verdi's *La Traviata*, in which the principal rôles were sung by Vina Bovi, the Belgian soprano, as Violetta, Nino Martini as Alfredo, and John Charles Thomas as Georgio.

During the intervals Milton Cross gave listeners a very good idea of the story of the opera, and on one of these occasions also introduced to the radio audience Mr. Edward Johnson, the manager of the Metropolitan Opera House. Mr. Johnson spoke of the wonderful opportunity which these relays gave to listeners all over the world to hear opera at its best and then discussed the new artists, both American and European, who would be making their *début* during the present series of operas. He said that the artists at the Metropolitan Opera House were a veritable League of Nations working happily together, because they spoke the international language of music.

At the conclusion of the performance it was announced that on December 18 Wagner's *Die Walküre* would be broadcast with a cast including Lauritz Melchior, Kirsten Flagstad, and Margery Lawrence.

Southampton.

R. T. C.

"WE SELL SEYCHELLES"

The title of the old comic song—one of Wilkie Bard's—greeted this lady listener to W2XAD. No song followed, however, but a talk on the attractions of a little group of islands—somewhere in the Indian Ocean. (The contributor of this and the remaining two items omitted to give details of their receivers.)

"We sell Seychelles" was the announcement which introduced a travel talk from W2XAD at 19.15 on Sunday, December 12. We learned that this winter alone there were over 2,700,000 tons of shipping employed on pleasure cruising from New York alone, and probably another half-million tons would be added. Obviously, these ships would not be filled if there were not safe ports of call to travel to, and apparently Seychelles—a group of islands in the Indian Ocean, where a British ship first called in 1609—is the ideal spot to visit.

The cost of living hardly seems to enter into the everyday problems of life, as, in the Seychelles, one can purchase "twelve fish for one penny and twelve wives for one fish." Also for six dollars a month one can live in comparative luxury, renting a house and two

servants. Radio reception is almost impossible, and the only real amusement is fishing.

Most remarkable are the giant thousand-year-old palms, the nuts of which are very choice, while the shells are in demand for baling out canoes. Seychelles is also the home of the rare and almost extinct black parrot. These islands, in spite of their invasion of visitors—who seldom leave—have a great natural beauty unequalled anywhere in the world.

Bexley, Kent.

(Mrs.) K. M.

BIG GAME

To the average stay-at-home (like myself) whose acquaintance with "wild life" has been made only in the vicinity of Regent's Park and Whipsnade, or inside the "big top," the broadcast account of the inhabitants of America's National Park must have provided a thrilling story.

"THERE are over two-and-a-half thousand bears and sixteen thousand elk roaming free in the United States." This and many other interesting facts about the wild life of America, were broadcast from W2XE on December 9, at 21.15.

Dr. Bryant, Assistant Director of National Parks, was being interviewed at the microphone, and gave these figures, obtained in a recent census. He assured listeners that the bears were really wild; but visitors to the parks sometimes treated them as though they were tame. He had himself seen a woman pose for a picture with a piece of bacon between her teeth, offering it to a bear. Fortunately the bear contented itself with the bacon and did not take her nose as well.

He also told an amusing story to illustrate the size of a moose. A Scotsman was being shown round a park, and a fine specimen of these animals was seen. He inquired what it was; and, on being told that it was a moose, he replied in broad Scots, "Weel, if yon's an American 'moose,' I'd no' like to meet a rat."

Dr. Bryant stated that the National Parks were necessary to preserve wild animals from extinction, for man was slowly invading their regular haunts. There was, however, no longer any fear that mighty buffalo or grizzly bear would become extinct, for in the thousands of acres devoted to National Parks each animal could live safely in its natural surroundings.

Ewell, Surrey.

S. B.

"UNCLE JIM'S NIGHT"

Here is a description of one of the ever-popular "Question-Bee" broadcasts—this time from W8XX.

SATURDAY night now spells "Uncle Jim's Night" for me since I listened to his "Question Bee" from Pittsburgh just after midnight last night. He presents six volunteers to the "mike" in turn and, after asking their names, hometown and occupation, etc., tells them to choose a question from a batch sent in by radio listeners. The question is read out and an answer is awaited. 100 points and a "hand" from the studio audience greet a correct answer; the reward of an incorrect one or a long pause is an "I'm ver-r-y sorry" from Uncle Jim and a derisive cuckoo-call from his confederate.

Some questions were hard; for example: "With which war was Theodore Roosevelt connected?" and some were easy, such as: "Explain Boer, bore, and boar." One man allocated Land's End to the South Pole, another enlarged pictures with a stethoscope.

And now, reader, one for you. "Why did they throw Joseph into the pit?"

"Because they thought it was a good opening for a young man."

Sheffield.

B. N. S.

Another lady short-wave listener (Barrow-in-Furness) informs me that she heard VP3THE (Holden Expedition in British Guiana) in communication with G6AG. I understand details are given in a paragraph elsewhere in this issue.

A Bristol reader states that Djibouti, in French Somaliland, is "on the air." At 12.15 on December 9 he was heard broadcasting orchestral selections, etc., on 17.28 Mc/s (17.36 m.). Schedule—first Thursday each month, 12.45-13.30 (G.M.T.). Call-sign not heard but frequent announcements "Allo; Ici Djibouti."

Special broadcasts dedicated to members of the International Short Wave Club are to be given as follows:—

Dec.		G.M.T.
20	W2XAD and W2XAF ...	21.00-21.30
21	W2XAF	04.00-04.30
23	HS8P7 (31.58 m.) ...	13.00
24	TPA4 (25.6 m.)	04.45-05.45

Reception reports should be sent to I.S.W.C., 100, Adams Gardens Estate, London, S.E.16.

* * *

I wish all my-readers a very Merry Christmas and ... Good DX.

BRITISH AMATEUR CONTACTS

VP3THE

At 20.15 on December 9, the British amateur station G6AG, near London, succeeded in establishing direct contact with the main camp of the Holden Expedition (VP3THE) situated some 500 miles within the jungle of British Guiana. G6AG is the first British amateur to communicate with VP3THE.

A schedule was arranged for the next evening (December 10) at 20.15 and contact was duly made, right on time. In the course of the very interesting QSO which followed, VP3THE gave details of their radio equipment, which consists of a 200-watt transmitter—deriving power from two 1,800-watt petrol-electric sets—used with a "V-type" aerial beamed on New York.

VP3THE sent greetings to the BBC and said the Empire transmissions are well received at the camp and thoroughly enjoyed. They requested G6AG to inform the BBC accordingly.

New to the Log

By "RADIO GUIDE"

CONSIDERABLE confusion has been caused by a Uruguayan station which appeared in the vicinity of 31.1 m. a few months ago, and another on 50 m., and the writer is able to state quite definitely that the former is CXA8 of Montevideo. Programmes are derived from the Buenos Aires medium-wave LR3, "Radio Belgrano," hence the station's frequent reference to that title, but the call CXA8 (say ay-kis ah oh-cho) may be heard quite often, coupled with mention of "LR3 en Buenos Aires." This station should not be confused with LRX on 31.06 m. The other Uruguayan on 50 m. is CXA2, and not CXA4, as generally surmised, of Montevideo. It is well heard from 22.00, or so, but is invariably ruined by severe telegraphy interference at 23.12. Programmes are generally taken from the Buenos Aires station, LS2, power being 5 kW, and programmes begin and conclude with the "Voluntary Trumpeter" and the Ted Lewis "Good-night Song" respectively. Reports should be addressed to "Radiodifusora CXA2, Rio Negro 1631, Montevideo, Uruguay."

SHORT-WAVE BROADCASTING STATIONS

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

Mc/s	m.	kW	Call	Station	Mc/s	m.	kW	Call	Station
5.15	58.3	1	PMY	Bandoeng (Java).	9.59	31.28	10	W3XAU	Philadelphia (Pa.) (U.S.A.). 17.00-01.00.
5.80	51.72	1	YV5RC	Caracas (Venez.).			20	VK2ME	Sydney (Australia). SUN., 06.00-08.00 ; 10.00-14.00 ; 14.00-16.00.
5.83	51.49	0.5	TIGPH	San José (Costa Rica) 00.00-05.00.			2	VK6ME	Perth (W. Australia). W'days, 09.00-11.00.
5.85	51.28	0.25	YV1RB	Maracaibo (Venez.) 22.00-02.00.			60	PCJ	Huizen (Holland). Exp'tl.
5.97	50.26	15	HVJ	Vatican City (Italy).	9.60	31.26	20	RAN	Moscow (U.S.S.R.).
6.00	50.	20	RW59	Moscow (U.S.S.R.).	9.61	31.2	1	YDB	Sourabaya (Java). 03.30-07.00 ; 10.30 to 15.00 ; and, ex. SUN., 23.00-00.30.
6.00	49.96	1	XEBT	Mexico City. 15.00-05.00.	9.63	31.13	25	I2RO3	Rome (Italy).
6.00	49.96	0.1	CFCX	Montreal (Canada). Weekdays, 12.45-06.00 ; SUN., 14.00-04.15.	9.65	31.09	2	CS2WA	Lisbon (Portugal). TUES., THURS., and SAT., 21.00-00.00.
6.01	49.92	2.5	COCO	Havana (Cuba). 22.00-05.00.	9.66	31.06	10	LRX	Buenos Aires (Argentine). 14.30-04.00.
		30	OLR2A	Poděbrady (Prague) (Czechoslovakia).	9.74	30.8	1	COCQ	Havana (Cuba). 17.00-06.00.
		1	CJCX	Sydney (Nova Scotia) 12.00-18.30 ; 21.00-01.30.	9.83	30.52	10	EAQ1	Madrid (Spain). 21.00-00.00.
6.01	49.9	1	HJ3ABH	Bogotá (Colombia). 22.30-04.00.	9.83	30.51	5	COCM	Havana (Cuba). 21.00-05.00.
6.02	49.83	5-40	DJC	Zeeseen (Germany).	9.94	30.18	5	CSW3	Lisbon (Portugal). 23.00-01.00.
6.03	49.75	0.2	HP5B	Panama (Panama Rep.) 22.00-03.00.	10.26	29.24	1.5	PMN	Bandoeng (Java). (As YDB, 31.2 m.).
6.04	49.67	10	W1XAL	Boston (Mass.) (U.S.A.).	10.27	29.21	9	PSH	(Brazil). 00.00-02.00.
6.04	49.65	5	W4XB	Miami (Florida) (U.S.A.).	10.33	29.04	9	ORK	Ruysselede (Belgium).
6.04	49.65	1	HJ1ABG	Barranquilla (Col.). 00.00-04.00.	10.35	28.99	12	LSX	Buenos Aires. FRI., 21.00-21.45.
6.05	49.59	10-50	GSA	Daventry.	10.36	28.94	4	EAJ43	Tenerife Radio Club (Canary Is.). 19.45-21.15 ; 22.45-00.45 ; 01.15-02.45
6.06	49.5	10	W8XAL	Cincinnati (U.S.A.). Weekdays, 10.45-01.00 ; 04.00-07.00 ; SUN., from 13.00.	11.00	27.27	1.5	PLP	Bandoeng (Java). 03.30-07.00 ; 09.30-15.00 (SAT. to 16.30) ; and, ex. SUN., 23.00-00.30.
6.06	49.46	0.75	W3XAU	Philadelphia (U.S.A.). 01.00-04.00.	11.04	27.17	5	CSW2	Lisbon (Portugal). 19.10-23.00.
		0.2	SBO	Motala (Sweden). <i>Relays Stockholm.</i>	11.40	26.31	20	HBO	Radio-Nations (Switzerland).
		0.2	VP3MR	Georgetown (Brit. Guiana). SUN., 12.45-15.45 ; W'days, 21.15-01.15 ; Mon., Wed., Fri., 15.15-16.15.	11.49	26.11	1	COCX	Havana (Cuba). 21.00-06.00.
6.07	49.42	1	HJ5ABD	Cali (Colombia). 22.00-04.00.	11.53	26.01	10	SPD	Warsaw (Poland).
6.07	49.41	1.5	OER2	Vienna (Austria). W'days, 14.00-22.00.	11.70	25.63	0.75	SBP	Motala (Sweden). <i>Relays Stockholm.</i>
6.08	49.36	15	OAX4Z	Lima (Peru). 23.30-04.30.	11.72	25.6	2	CB1170	Santiago (Chile). 14.00-03.00.
6.08	49.34	0.05	ZHJ	Penang (S.S.). Weekdays, 12.40-14.40.			2	CJRX	Winnipeg (Canada). Weekdays, 23.00-05.00 ; SUN., 22.00-03.00.
6.08	49.33	0.5	W9XAA	Chicago (Ill.) (U.S.A.) 01.00-07.00.	11.73	25.57	12	TPA4	Radio-Colonial (Paris) (France).
6.08	49.33	0.5	VQ7LO	Nairobi (Kenya). SUN., 16.15-19.15, MON. to SAT., 11.00-11.30 ; 16.45-19.45 ; TUES. and THURS., 13.45-14.45.	11.75	25.53	25	PHI	Huizen (Holland).
6.08	49.3	Delhi (India).	11.77	25.49	5-40	GSD	Daventry.
6.09	49.28	0.5	CFRX	Toronto (Canada). 23.00-04.00.	11.79	25.45	10	DJD	Zeeseen (Germany).
6.09	49.26	2.6	ZBW2	Hong Kong.	11.80	25.42	50	W1XAL	Boston (Mass.) (U.S.A.).
6.10	49.2	5	ZTJ	Johannesburg (S. Africa). 17.00-21.00.	11.81	25.4	1.5	JZJ	Tokio (Japan).
6.10	49.18	15-35	W3XAL	Bound Brook (N.J.) (U.S.A.).	11.82	25.38	25	OER3	Vienna Exp'tl. Weekdays, 14.00-22.00.
		10	W9XF	Chicago (Ill.) (U.S.A.).	11.82	25.36	10-50	I2RO4	Rome (Italy).
		1	YUA	Belgrade (Yugoslavia).	11.83	25.36	0.5	GSN	Daventry.
6.11	49.12	1	HJ4ABB	Manizales (Colombia). 22.30-03.00.	11.84	25.34	5	W9XAA	Chicago (Ill.). 12.00-02.00 ; 17.00-19.00.
6.11	49.1	10-50	GSL	Daventry.	11.85	25.31	5-40	W2XE	Wayne (N.J.) (U.S.A.).
		0.5	VUC	Calcutta (India). W'days, 07.06-09.36 ; 11.36-17.06 ; SUN., 03.06-07.06 ; 12.36-16.36.	11.86	25.29	10-50	OLR4A	Poděbrady (Prague) (Czechoslovakia).
6.12	49.02	1	LKJ	Jeløy (Norway). 16.30-22.00.	11.87	25.26	24	CWS4	Lisbon (Portugal). 18.00-19.10.
6.13	48.92	1	COCD	Havana (Cuba). 15.00-05.00.	11.88	25.29	5-40	DJP	Zeeseen (Germany).
6.13	48.9	0.5	VE9HX	Halifax (Nova Scotia). 12.00-04.00.	11.87	25.26	10-50	GSE	Daventry.
6.14	48.83	30	W8XX	Pittsburgh (U.S.A.).	11.87	25.26	24	W8XX	Pittsburgh (U.S.A.).
6.15	48.78	2	CJRO	Winnipeg (Canada). Weekdays, 23.00-05.00 ; SUN., 22.00-03.00.	11.89	25.24	12	TPA3	Radio-Colonial (Paris) (France).
6.24	48.04	0.75	HIN	Trujillo City (D.R.). 21.40-02.40.	12.00	25	20	RNE	Moscow (U.S.S.R.).
6.32	47.5	0.1	HIZ	Trujillo City (D.R.). 21.45-00.45.	12.23	24.52	7.5	TFJ	Reykjavik (Iceland).
6.41	46.8	1	TIPG	San José (Costa Rica). 00.00-05.00.	13.63	22	10	SPW	Warsaw (Poland).
6.63	45.25	2	HC1FG	Riobamba (Ecuador). 02.00-04.00.	14.92	20.11	1.5	LZA	Sofia (Bulgaria). <i>Relays Sofia (352.9 m.).</i>
6.66	44.99	0.1	HIT	Trujillo City (D.R.). 21.45-00.45.	15.00	20	..	EAJ1	Barcelona (Spain).
		0.2	HC2RL	Guayaquil (Ecuador). SUN., 22.30-00.30 ; WED., 02.00-04.00.	15.11	19.85	5-40	DJL	Zeeseen (Germany).
7.50	40	..	EAJ1	Barcelona (Spain).	15.12	19.84	10	HVJ	Vatican City (Italy).
7.54	39.79	25	RKI	Moscow (U.S.S.R.).	15.14	19.82	10-50	GSF	Daventry.
7.80	38.48	20	HBP	Radio-Nations. SAT., 22.30-23.00.	15.15	19.8	1.5	SM5SX	Stockholm Tech. University. MON. to SAT., 16.00-22.00 ; SUN., 14.00-22.00.
8.83	33.98	0.15	HCJB	Quito (Ecuador). 00.00-03.30.	15.18	19.76	10-50	YDC	Bandoeng (Java). (As YDB, 31.2 m.).
9.12	32.88	6	HAT4	Budapest (Hungary).	15.19	19.75	2.6	GSO	Daventry.
9.34	32.1	20	HBL	Radio-Nations (Switzerland).	15.20	19.74	5-40	ZBW4	Hong Kong.
9.43	31.8	10	COCH	Havana (Cuba). 17.00-04.30.	15.21	19.71	18	DJB	Zeeseen (Germany).
9.48	31.63	10	EAR	Madrid (Spain). 21.00-00.00.	15.21	19.71	60	W8XX	Pittsburgh (U.S.A.).
9.50	31.58	12	PRF5	Rio de Janeiro (Brazil).	15.22	19.71	18	PCJ	Huizen (Holland). Exp'tl.
		1.5	VK3ME	Melbourne. Weekdays, 09.00-12.00.	15.23	19.7	30	OLR5A	Poděbrady (Prague) (Czechoslovakia).
		5	HS8PJ	Bangkok (Siam). THURS., 13.00-15.00.	15.24	19.68	12	TPA2	Radio-Colonial (Paris) (France).
9.51	31.55	10-50	GSB	Daventry.	15.25	19.67	10	W1XAL	Boston (Mass.) (U.S.A.).
9.52	31.51	6	OZF	Skamlebaek (Denmark). 19.00-23.40.	15.26	19.66	10-50	GSI	Daventry.
		2.6	ZBW3	Hong Kong. 04.30-06.15 ; 08.00-14.30.	15.27	19.65	10	W2XE	Wayne (N.J.) (U.S.A.).
9.52	31.5	..	ZRX	Johannesburg (S. Africa).	15.28	19.63	5-40	DJQ	Zeeseen (Germany).
9.53	31.48	1	LKC	Jeløy (Norway). 10.00-13.00.	15.29	19.62	7	LRU	Buenos Aires (Argentine). 12.00-14.00.
		25	W2XAF	Schenectady (N.Y.) (U.S.A.).	15.31	19.6	10-50	GSP	Daventry.
9.54	31.46	2	VPD2	Suva (Fiji Islands).	15.33	19.57	18	W2XAD	Schenectady (N.Y.) (U.S.A.).
		50	JZI	Tokio (Japan).	15.34	19.56	5-40	DJR	Zeeseen (Germany).
9.54	31.45	5-40	DJN	Zeeseen (Germany).	15.37	19.52	6	HAS3	Budapest (Szekesfehervar) (Hungary).
9.55	31.41	30	OLR3A	Poděbrady (Prague) (Czechoslovakia).	17.31	17.33	5	W2XGB	Hicksville (N.Y.) MON.-FRI. 16.00-18.00.
9.55	31.4	1	YDB	Sourabaya (Java). Daily, 09.30-14.30.	17.76	16.89	5-40	DJE	Zeeseen (Germany).
9.56	31.38	5-40	DJA	Zeeseen (Germany).	17.77	16.88	10	W2XE	Wayne (N.J.) (U.S.A.).
9.56	31.37	10	OAX4T	Lima (Peru). 16.30-18.30.	17.78	16.87	25	PHI	Huizen (Holland).
9.56	31.36	4.5	VUB	Bombay (India).	17.79	16.86	15-35	W3XAL	Bound Brook (U.S.A.).
		10	W1XK	Millis (Mass.) (U.S.A.) Weekdays, 11.00-06.00 ; SUN., 13.00-06.00.	18.11	16.56	10-50	GSG	Daventry.
9.57	31.35	6	KZRM	Manila 21.30-23.00 ; 02.00-14.00.	19.02	15.77	5	LSY	Buenos Aires (Argentine).
		10-50	GSC	Daventry.	21.47	13.97	10-50	HS8PJ	Bangkok (Siam). MON., 13.00-15.00.
9.58	31.32	1	VLR	Lyndhurst (Australia).	21.52	13.94	10	GSH	Daventry.
					21.53	13.93	10-50	W2XE	Wayne (N.J.) (U.S.A.).
					21.54	13.93	6	GSJ	Daventry.
					21.55	13.92	10-50	W8XX	Pittsburgh (U.S.A.).
								GST	Daventry.

Short-Wave Programmes

All times are given in G.M.T.

* Electrical Recordings.
† Gramophone Records.

‡ A second transmitter and aerial working on the same frequency.

SUNDAY, Dec. 19

EMPIRE

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

Transmission 1 (GSG, GSO, GSD, GSB).
08.15—Big Ben; England v. Australia, Rugby Football match.*
08.40—Max Oldaker (Tenor); John Willis (Pfte.).
09.00—Newsletter, Sports Summary.
09.25—Empire Service from St. Paul's Cathedral, London.*
10.15-10.25—Mendelssohn's Orchestral Music.†

Transmission 2 (GSJ, GSH, GSG, GSO).
10.45—Big Ben; Mozart's music.†
11.15—"Stradivarius," by Joan Adeney Easdale.*
11.45—Service (R.C.).*
12.20—"This is England," talk.*
12.35—Band: Gladys Palmer (Contralto).
13.30-13.55—Big Ben; Newsletter, Sports Summary.

Transmission 3 (GSH, GSG, GSF, GSD).
14.15—Big Ben; "Christmas is Coming."*
14.45—"Sportsmen Talking."*
15.00—"To the Children," with music by Elgar.
15.45—Big Ben; Newsletter, Sports Summary.
16.10-17.00—Empire Service from St. Paul's Cathedral, London.*

Transmission 4 (17.20-20.45 GSG, GSP from 18.45; GSA, GSD, GSB; 21.00-22.45 GSO, GSD, GSC, GSB).
17.20—Winifred Payne (Contralto).
17.35—"For the Colonial Service," talk.*
17.55—Orchestra.†
18.00—Big Ben; Newsletter, Sports Summary.
18.20—Pau Casals (Cello).†
18.30—"Victorian Melodies."*
19.30—Chopin's Pfte. music.
19.55-20.45—Service (C. of Scotland).
21.00—Big Ben; Newsletter, Sports Summary.
21.20—Songs of the Sea.
21.35—Orchestra Raymond.
22.30-22.45—Epilogue.

Transmission 5 (GSL, GSC, GSB, GSB).
23.05—Beethoven's Pfte. Trios.
23.30—Service (R.C.).*
00.05—Band.
00.40—Newsletter, Sports Summary.
01.00-01.30—Big Ben; Reginald Foot (BBC Theatre Organ); Gladys Garside (Contralto).

Transmission 6 (GSL, GSD, GSC, GSB).
02.00—Big Ben; BBC Military Band.*
02.50—Newsletter, Sports Summary.
03.10-04.00—Service (C. of Scotland).*

BARCELONA

(40 m.)
23.00—News (Foreign Languages).

BOSTON

(25.45 m.)
22.30-23.00—In the President's Study, Bowdoin College.

BOUND BROOK

(16.87 m.)
14.00—Music.
16.00—News; Music.
19.00—RCA Magic Key.
20.00-23.40—Music.
00.00-02.00—For S. America: Concert.
(49.18 m.)
02.25-06.00—For S. America.
02.25—News (Sp.); Music.
05.00-06.00—Rebroadcast of Events.

BUDAPEST

(19.52 m.)
14.00-15.00—Music; News (Eng.).
(32.88 m.)
00.00-01.00—See 14.00.

HUIZEN

(19.71 m.)
08.30-10.00—For Australia and New Zealand.

(16.88 m.)
12.25—For Asia: Music; Talks; News.
13.25—For the Dutch Indies: Anthem; Call; Talk.
13.45—Concertgebouw Jubilee Concert, Conductor: Mengelberg (Recorded).
14.20-15.30—News, etc.; Music.
(31.28 m.)
19.00-20.00—For Africa: Music; Talks; News.
00.00-01.00—For the Americas: Music; Talks; News.
01.15-02.15—For the West.

LYNDHURST

(31.32 m.)
08.00—ABC Chorus, etc.
08.40—Talk; Music; Reading.
10.15—Ensemble; World Affairs.
11.15-12.30—"The Coming of Christ"—Play (Masfield).

MOSCOW

(25 m.)
11.00—For England.
12.00—For Germany.
13.00—For Holland.
14.00—For France.
15.00—For England.
17.15—For Germany.
(39.79 m.)
18.00—For Germany.
(50 m.)
20.00—For Italy.
21.00—For England.
22.00—For Germany.
(31.26 m.)
23.00—For Spain.
(31.26 m.; 39.79 m.)
00.00—For England.
(50 m.)
01.30—For France.
(25 m.)
03.15—For England.

PARIS (Radio-Colonial)

(25.23 m.)
07.00—News; Records.
09.40—News (Eng., It.).
(19.69 m.)
11.00—Concert.
12.00—News (Eng.); Concert.
12.45—Review; Concert.
13.30—News; Reviews; Records.
14.30—To be announced.
(25.23 m.)
16.15—News (Fr., Arabic); Music.
19.00—Radio Journal; Exchange.
20.10—News (Eng., It.).
20.30—To be announced.
22.30—Sports; News (Port.).
(25.6 m.)
23.15—Concert.
00.15—News (Fr., Sp., Port.).
03.00—Records; News.
04.30—News (Eng.); Records.
05.45-06.00—News (Ger.).

PITTSBURGH

(19.71 m.)
14.00—For Children; Variety.
16.00—Calvary Episcopal Church.
17.00—Southernaires.
17.30—Music-Hall; Variety.
19.00—R.C.A. Magic Key.
20.00—Broadway; Topical; Organ.
21.30—Vespers—Shady-side Church.
22.00—Metropolitan Auditions.
22.30—Ed McConnell; Tenor.
23.00—Broadway Stars; Melody.
23.30—News; Music; Variety.
(25.26 m.)
00.00—Popular Classics; Music.
02.00—Hollywood Playhouse.
02.30—News; Irene Rich.
(49.83 m.)
03.00—Interlude; Cheerio.
04.00—Music; News.
04.15—Missionary Broadcast.
05.00-06.00—Orchestras.

PODEBRADY

(31.41 m.)
For Europe.
17.55—News (Czech, Ger.); Music.
21.00—News (Eng., Fr.); Music.

REYKJAVIK

(24.52 m.)
18.40—Talks and News (Eng., Ice.); Music.
19.05-19.30—Talk and News (Ger.); Music.

ROME

(25.4 m.)
10.00—News; Choir; Poems; Music.
11.00—News (Eng.); Music; News.
12.31-13.45—News; Pfte. Duo; Variety.
15.00—News; Music; News (Eng.).
16.20-17.20—Operetta; News.

(31.13 m.)
17.30—News, Music and Talk (Arabic).
18.11—Talks and News in Foreign Languages.
19.40-19.59—News (Eng.).
23.05-00.30—For S. America: News; "L'Africaine" (Meyerbeer); News (Sp., Port.).
00.40-02.00—For U.S.A.: News (Eng.); "Lindbergh's Flight" (Weill); News.

SCHENECTADY

(19.57 m.)
16.00—News; Music.
17.30—University Discussion.
18.00—Martin; Choir; Variety.
20.00—Radio Newsreel; Party.
(19.57 m.; 31.48 m.)
21.00—Chapel Organ.
22.00—Soprano; Variety.
23.00—R.C. Hour; Variety.
(31.48 m.)
02.00—Merry-Go-Round.
02.30—Music; Musical Stars.
03.30—Orchestras.
04.30-05.00—News; Orchestra.

TOKIO

(25.42 m.; 31.46 m.)
For Europe.
20.00—News (Eng.); Variety.
20.30-21.00—News (Fr., Ger., Jap.).

VATICAN CITY

(50.26 m.)
10.00—For Invalids (Latin, Fr.).

WARSAW

(22 m.; 26.01 m.)
23.00—News (Pol., Eng.); For Children; Light Music; Talk; Songs; Story.
01.20-02.00—Talk (Eng.); Music.

WAYNE

(13.94 m.)
13.00—Organ; Variety.
14.00—Aunt Susan's.
14.55—News.
15.00—Church of the Air.
15.30—Children's Programme.
16.30—Major Bowes' Family.
17.30-18.00—Salt Lake City Tabernacle Choir and Organ.
(25.36 m.)
19.30—Dramatic Programme.
20.00—New York Philharmonic. Conductor: Barbirolli.
22.00-23.00—Drama; Orchestra.
(16.89 m.)
23.30-05.00—For S. America.
23.30—Orchestra—Variety.
00.00—Jeannette MacDonald.
01.00-03.30—Variety.
03.30—Headlines and Bylines.
04.00—Dance Music.
04.30-05.30—"The Messiah" (Handel).

ZEESEN

(16.89 m.; 19.63 m.; 19.74 m.; 31.38 m.; 31.45 m.)
05.05—Call (Ger., Eng.); Music.
06.00—News; Music.
07.00—News (Eng.); Music.
09.00—Grieg Music.
09.30—News; Review; Music.
12.00—News (Eng.); Music.
13.00—News and Review.
13.15—"Sunday."
13.40—Songs and Dances.
14.00—News (Eng., Dutch); Songs.
15.00—Bach Choir.
15.30-16.00—Burlesque (Strauss).

ZEESEN

(19.85 m.; 25.49 m.; 49.83 m.)
11.00-13.00—Orchestra.
15.40—Call (Ger., Eng.); Music.
16.15—For Children; Meditation.
16.50—Concert.
17.15—News; Marches.
18.00—Concert.
19.00—News (Eng.); Advent Songs.
19.45—Grieg Songs.
20.15—Talks with Music; Sports.
21.00-21.20—News (Ger., Eng.).

ZEESEN

(19.74 m.; 25.49 m.; 49.83 m.)
16.10-17.25—Symphony Concert.
21.50—Call (Ger., Eng.); Greetings.
22.00—For Children.
22.15—Songs and Dances.
22.45—News; "Sunday."
23.15—Sunday Concert.
00.15—Sports.
00.30—Sacred Songs.
01.00—For Long Island.
01.15—News (Eng.).
01.30—Pfte.; Burlesque (Strauss).
02.00—News.
02.15—Greetings to the Swabian Choir, Cleveland.
02.30—Concert.
03.30—News (Eng., Ger.).

MONDAY, Dec. 20

EMPIRE

Transmission 1 (GSG, GSO, GSD, GSB).
08.15—Big Ben; Orchestra: Gladys Lorimer (Soprano).*
09.10—"This is England," talk.
09.25—"Haunting Harmonies."
09.35—News.
09.55-10.25—"In Town Tonight."*
Transmission 2 (GSJ, GSH, GSG, GSO).
10.45—Big Ben; BBC Welsh Orchestra: Annie Davies (Soprano).
11.30—Music-Hall.*
12.30—Operatic programme.†
13.15—"Empire Exchange."
13.30-13.55—Big Ben; News.

Transmission 3 (GSH, GSG, GSF, GSD).
14.15—Big Ben; "Stradivarius," by Joan Adeney Easdale.*
14.45—Talk: "Music in African Life."*
15.00—Eastbourne Municipal Orchestra.
15.30—"In Town Tonight."*
16.00—Big Ben; News.
16.20—Dance Music.†
16.35-17.00—Cinema Organ.

Transmission 4 (17.20-20.45 GSG, GSP from 18.45; GSA, GSD, GSB; 21.00-23.00 GSO, GSD, GSC, GSB).
17.20—The Alphas.
18.00—Big Ben; News.
18.20—Music by Eric Coates.
19.00—"Monday at Seven."
19.45—"The Plums."
20.00—"Empire Exchange."*
20.15-20.45—"Stradivarius," by Joan Adeney Easdale.*
21.00—Big Ben; News.
21.20—Music of Waldeufel.†
21.30—Dance Band.
22.00—Talk: "Music in African Life."*
22.15—"Festival of Food," by S. L. Ricardo and John Pudney.*
22.45-23.00—Serenade.†

Transmission 5 (GSL, GSC, GSB, GSB).
23.20—Selections from "The Messiah" (Handel).
00.40—News.
01.00-01.30—Big Ben; Variety.
Transmission 6 (GSL, GSD, GSC, GSB).
02.00—Big Ben; Music of Eric Coates.†
02.10—"Scrapbook for 1913."*
03.10—News.
03.30-04.00—Big Ben; "Christmas is Coming."*

BARCELONA

(40 m.)
23.00—News (Foreign Languages).
(20 m.)
00.00—News (Eng.).
BOSTON
(19.67 m.)
19.30-20.00—Monitor News.
20.30-21.15—Harvard University.
(25.45 m.)
22.00-22.30—In the College President's Study.
(49.67 m.)
00.00-02.00—Music; Modern Radio Course.

BOUND BROOK

(16.87 m.)
14.00—Music.
14.40—News; Music.
16.00—News (It.); Music.
16.30—Books (It.); Music.
17.00—News; Music.
18.00—News (Fr.); Music.
19.00—News (Ger.); Music.
20.00—News (Fr.); Music.
21.00—News (Ger.); Music.
21.30—Sports (Ger.); Music.
22.00—News; Music.
22.30—News (Fr., Ger.); Music.
23.30—News; Music.
00.00-02.00—For S. America.
00.00—News (Sp., Port.); Music.
01.00—For Women (Sp.); Music.
01.30—"Voice of Firestone."
(49.18 m.)
02.25-06.00—For S. America.
02.25—Programmes; "Charm."
03.00—Films (Sp.); Dance Music.
03.30—News (Sp.); Music.

HUIZEN

(16.88 m.)
For the Dutch Indies.
13.25—Call; Stocks; Variety.
14.00—Sports; Variety; Talk.
14.55-15.05—News; Anthem.
(31.28 m.)
02.00-03.30—For S. America.
LYNDHURST
(31.32 m.)
02.35—The Watchman; Music.
03.00-07.15—News; Cricket; Music.
08.30—Music; Sports; Talk.
09.25—News; Watchman; Music.
11.00—Dance Band; Topical.
12.00—"Harbour Lights."
12.30—News; Music.
13.10-13.30—League of Nations.

MOSCOW

(25 m.)
11.00 and 17.15—For Germany.
(50 m.)
20.00—For Italy; For Germany.
21.00—For England.
22.00—For Hungary.
(31.26 m.)
23.00—For Spain.
(31.26 m.; 39.79 m.)
00.00—For England.
(50 m.)
01.30—For Portugal.
(25 m.)
03.15—For England.

PARIS (Radio-Colonial)

(25.23 m.)
07.00-09.40—News; Records.
09.40—News (Eng., It.).
(19.69 m.)
11.00—Records; Talk (Greek).
12.00—News (Eng.); Concert.
12.45—Review; Concert.
13.30—News; Talks; Music.
14.30—Light Music, Songs.
15.55—Exchange.
(25.23 m.)
16.15—News (Fr., Arabic); Music.
19.00—Radio Journal.
20.10—News (Eng., It.).
20.30—To be announced.
22.30—Markets; News (Port.).
(25.6 m.)
23.15—Records.
00.15—News (Fr., Sp., Port.).
03.00—Records; News.
04.30—News (Eng.); Records.
05.45-06.00—News (Ger.).

PITTSBURGH

(19.71 m.)
14.00—Shopping; Variety.
16.45—Edward MacHugh.
17.00—News; Variety.
17.30—Farm and Home; Interlude.
18.45—Stroller's Matinée.
19.30—Home Forum; Music.
20.15—Welfare; Variety.
21.00—Forum Interview.
21.15—News; Club Matinée.
22.00—Variety.
23.00—News; Music.
23.45—Lowell Thomas.
(25.26 m.)
00.00—Music; Variety.
01.00—Gen. Johnson; Songs.
01.30—Grand Hotel.
02.00—Philadelphia Symphony Orchestra.
(48.83 m.)
03.00—Behind Prison Bars.
03.30—National Radio Forum.
04.00—News; Music.
05.00—New Penn Orchestra.
05.30-06.00—Orchestras.

PODEBRADY

(31.41 m.)
For Europe.
17.55—News (Czech, Ger.); Music.
21.00-21.40—News (Eng., Fr.); Music.

ROME

(25.4 m.)
10.00—News; Light Music.
11.00—News (Eng., Chin.); Music; News.
12.30-13.45—News; Music; Talk.
15.00—News; "Lindbergh's Flight" (Weill); Pfte.; Italian Lesson; News (Eng.).
16.20-17.20—Sports; Music; News.
(31.13 m.)
17.30—News; Music and Talk (Arabic).
18.11—Talk (Esperanto).
18.27—News and Talks (Hung., Ger. Serb., Fr.).
19.40-19.59—News (Eng.).
23.05-00.30—For S. America: News; Variety; Humour; News (Sp., Port.).
00.35-02.00—For U.S.A.: News (Eng.); Songs with Commentary (Eng.); Reading; News.

SCHENECTADY

(19.57 m.)
16.00—Variety.
17.30—Farm Programme; Variety.
19.00—U.S. Travel Talk (Fr.).
19.15—WPA; Variety.
(19.57 m. and 31.48 m.)
21.00—Short-wave Club; Variety.
22.00—News Tower; Variety.
23.15—U.S. Travel Talk.
23.30—News; Songs; Sports.
00.00—Amos 'n' Andy.
00.15—U.S. Travel Talk (Sp.).
00.30—Stocks; News; Music (Sp.).
(31.48 m.)
02.00—Fibber McGee; Charm.
03.00—Contented Hour.
03.30—Music; Short-wave Club.
04.30-05.00—Orchestra.

TOKIO

(25.42 m.; 31.46 m.)
For Europe.
20.00—News (Eng.); Talk.
20.30-21.00—News (Fr., Ger., Jap.).

VATICAN CITY

(19.84 m.)
15.30—Church Notes (It.).
(50.26 m.)
19.00—Church Notes (It.).

WARSAW

(22 m.; 26.01 m.)
23.00-01.00—News (Pol., Eng.);
Talk; Polish Music; Talk (Eng.);
Music.

WAYNE

(13.94 m.)
12.30—Variety.
12.55—News; Variety.
14.25—15.00—News; Morning
Moods.
(19.65 m.)
18.00—Variety.
19.00-19.15—News for Women.
(25.36 m.)
19.30—School of the Air.
20.00—"Happy Christmas to you
all," from London.
20.30-21.00—CBS-BBC Exchange—
Broadway Matinée.
21.00—Ted Malone—Books.
21.15—"Sing and Swing."
21.30—Questions before Congress.
21.45—Dr. Dafoe—Talk—Music.
22.00—Headlines and Bylines.
22.30-23.00—Dance Music.
(16.89 m.)
23.30-05.00—For S. America.
23.30—News; Dance Music.
23.45—News (Sp.); Variety.
00.15—Songs; Dance Music.
00.45—Boake Carter—News.
01.00-03.00—Dance Music; Variety.
03.30—"Brave New World."
04.00-05.00—Dance Music.

ZEESEN

(16.89 m.; 19.63 m.; 19.74 m.;
31.38 m.; 31.45 m.)
05.05—Call (Ger., Eng.); Music.
06.00—News; Music.
07.00—News and Review (Eng.).
07.15—Topical; For Children.
07.45—Programmes; Music.
09.00—Chamber Music; Sports.
09.30—News; Topical; Music.
12.00—News (Eng.); Music.
13.00—News and Review.
13.15—Variety; Music; Sports.
14.00—News (Eng., Dutch); Talk.
14.30-16.00—Programmes; Variety;
Talk.

ZEESEN

(19.85 m.; 25.49 m.; 49.83 m.)
15.40—Call (Ger., Eng.); Music.
16.15—Programmes; Choir.
16.50—Concert.
17.15—News; Overtures.
18.15—Liszt Pfte. Recital.
18.30—Waltzes and Marches.
19.00—News (Eng.); Topical.
19.30—Nissen (Bartone).
20.00—Homeland Evening; Talk.
21.00-21.20—News (Ger., Eng.).

ZEESEN

(19.74 m.; 25.49 m.; 49.83 m.)
21.50—Call (Ger., Eng.); Organ.
22.15—Programmes; Sextet
(Jentsch).
22.45—News; Songs.
23.45—Variety; at 00.15—Talk.
01.15—News (Eng.); Grieg Songs.
02.00—News; Talk; Variety.
03.30—News (Eng., Ger.).

TUESDAY, Dec. 21

EMPIRE

Transmission 1 (GSG, GSO,
GSD, GSB).
08.15—Big Ben; "Over the Hill
Came Love," a sentimental Irish
story.*
08.35—Music-Hall.*
09.35—News.
09.55—"Empire Exchange."**
10.10-10.25—Songs.
Transmission 2 (GSJ, GSH,
GSG, GSO).
10.45—Big Ben; Selections from
"The Messiah" (Handel).*
12.05—Sara Stein (Pfte.).
12.15—Part I, "Oliver Twist"
(Dickens).
13.00—"Marry the Girl," by
Arthur Miller and George
Arthurs.*
13.30-13.55—Big Ben; News.
Transmission 3 (GSH, GSG,
GSF, GSD).
14.15—Big Ben; Christmas talk.
14.20—Band.
15.00—"Scrapbook for 1913."*
16.00—Big Ben; News.
16.20—Joan Boulter (Pfte.).
16.45-17.00—"World Affairs."
Transmission 4 (17.20-20.45
GSG, GSP from 18.45, GSA,
GSD, GSB; 21.00-23.00 GSO,
GSD, GSC, GSB).
17.30—"This is England." talk.
17.35—Adelaide Newman (Pfte.);
Loris Blofeld (Violin).
18.00—Big Ben; News.
18.20—Christmas talk.*

18.25—BBC Military Band.

19.05—"World Affairs.*
19.20—Orchestra.†
19.30—"The Escape of the Cal-
liope."**
20.00-20.45—Variety.
21.00—Big Ben; News.
21.20—Talk by H. G. Wells.
21.35—Watson Forbes (Viola).
21.50—"Marry the Girl," by
Arthur Miller and George
Arthurs.*
22.20—"World Affairs."**
22.35-23.00—Dance Band.
Transmission 5 (GSL, GSC,
GSB, GSB).
23.20—"Gower Reel."**
23.40—"This is England." talk.*
23.55—Music-Hall Reminiscences.
00.40—News.
01.00-01.30—Big Ben; Organ
Recital.
Transmission 6 (GSL, GSD,
GSC, GSB).
02.00—Big Ben; "World Affairs."**
02.15—Alec John (Tenor).
02.25—Part I, "Oliver Twist"
(Dickens).*
03.10—News.
03.30-04.00—Big Ben; "Festival of
Food," by S. L. Ricardo and
John Pudney.*

BARCELONA

(40 m.)
23.00—News (Foreign Languages).

BOSTON

(19.67 m.)
19.30-20.00—The Monitor.
(49.67 m.)
00.00—Music; Literature.
01.00-01.45—Harvard University.

BOUND BROOK

(16.87 m.)
14.00—Music.
14.40—News; Music.
16.00—News (It.); Music; Films.
17.00—News; Music.
18.00—News (Fr.); Music.
19.00—News (Ger.); Music.
20.00—News (Fr.); Music.
20.30—For Women (Fr.).
21.00—News (Ger.); Music.
21.30—Review (Ger.); Music.
22.00—News; Music.
22.30—News (Fr., Ger.); Music.
23.30-23.40—News; Music.
00.00-02.00—For S. America.
00.00—News (Sp., Port.); Music.
01.00—Sports (Sp.); Music.
(49.18 m.)
02.25-06.00—For S. America.
02.25—Programmes; Music.
03.00—Man about Town (Sp.);
Dance Music.
03.30—News (Sp.); Music.
05.00-06.00—Events Rebroadcast.

HUIZEN

(16.88 m.)
For the Dutch Indies.
13.25—Call; Stocks; Topical.
14.00—Variety Ensemble.
14.50-15.00—News; Anthem.
(31.28 m.)
19.00-20.30—For Africa.

LYNDHURST

(31.32 m.)
02.35—The Watchman; Music.
03.00-07.15—News; Cricket; Music.
08.30—Music; Sports; News (Fr.).
09.20—News; Markets.
10.00—Symphony Hour; Baritone.
11.15—"A Christmas Carol"—
Play after Dickens (Barclay).
12.00—Organ; Music.
12.30-13.30—News; Dancing.

MOSCOW

(25 m.)
11.00 and 17.15—For Germany.
(50 m.)
20.00—For Italy; For Germany.
21.00—For Holland.
22.00—For Portugal.
(31.26 m.)
23.00—For Spain.
(31.26 m.; 39.79 m.)
00.00—For England.
(50 m.)
01.30—For France.
(25 m.)
03.15—For England.

PARIS (Radio-Colonial)

(25.23 m.)
07.00-09.40—News; Records.
09.40—News (Eng., It.).
(19.69 m.)
11.00—Records; Talk (Jap.).
12.00—News (Eng.); Music.
13.30—News; Talks; Records.
14.30—"L'Homme mysterieux"—
Play (de Lorde).
15.55—Exchange.
(25.23 m.)
16.15—News (Fr., Arabic).
17.00—Concert.
18.50—Shipping; Radio Journal.
20.10—News (Eng., It.).
20.30—To be announced.
22.30—Markets; News (Port.).

(25.6 m.)

23.15—Records.
00.15—News (Fr., Sp., Port.).
03.00—Records; News.
04.30—News (Eng.); Records.
05.45-06.00—News (Ger.).

PITTSBURGH

(19.71 m.)
14.00—Shopping; Variety.
16.45—Edward MacHugh.
17.00—News; Novelties.
17.30—Farm and Home; Songs.
18.45—Rochester Civic Orchestra;
Variety.
19.30—Home Forum; Music;
Clubs.
20.30—U.S. Marine Band; Variety.
21.15—News; Music; Interviews.
22.00—Variety Items.
23.00—News; Broadway Stars.
23.45—Lowell Thomas.
(25.26 m.)
00.00—Variety.
01.00—Husbands and Wives.
02.30—It can be done; Music.
02.30—NBC Night Club.
(48.83 m.)
03.00—Gen. Johnson; Choir.
03.30—Radio Town Meeting.
04.00—News; Music.
05.00-06.00—Orchestra.

PODEBRADY

(31.41 m.)
For Europe.
17.55—News (Czech, Ger.); Music.
21.00-21.40—News (Eng., Fr.);
Music.

ROME

(25.4 m.)
10.00—News; Music.
11.00—News (Eng.); Music; News.
12.31-13.45—News; Variety.
15.00-16.15—News; Music; News
(Eng.).
16.20-17.20—Sports; Music; News.
(31.13 m.)
17.30—News, Music and Talk
(Arabic).
18.11—Talk (Esperanto).
18.27—News and Talks (Hung.,
Ger., Serb., Fr.).
19.40-19.59—News (Eng.).
23.05-00.30—For S. America:
Music; Talk; Band; News (Sp.,
Port.).
00.35-02.00—For U.S.A.; News
(Eng.); Musical Sketch; News.

SCHENECTADY

(19.57 m.)
16.00—Variety.
17.30—Farm Programme; Variety.
19.30—Women's Clubs; Variety.
(19.57 m. and 31.48 m.)
21.00—Variety.
22.00—News Tower; Variety.
23.00—Science; Rhythmaires.
23.30—News; Mail.
00.00—Amos 'n' Andy; Songs.
00.30—Stocks; News, Music (Sp.).
01.30—Serenade.
(31.48 m.)
02.00—Vox Pop.
02.30—Hollywood Programmes.
03.45-05.00—Music; Orchestras.

TOKIO

(25.42 m.; 31.46 m.)
For Europe.
20.00—News (Eng.); Talk.
20.30-21.00—News (Fr., Ger.,
Jap.).

VATICAN CITY

(19.84 m.)
15.30—Church Notes (Eng.).
(50.26 m.)
19.00—Church Notes (Eng.).

WARSAW

(22 m.; 26.01 m.)
23.00—News (Pol., Eng.); Music;
Recitations.
23.30—Reading; Music; Talk;
Orchestra.
00.30-01.00—Talk (Eng.); Orches-
tra.

WAYNE

(13.94 m.)
12.30—Phil Cook—Variety.
12.55—News; Music.
14.25-15.00—News; Songs;
Waltzes.
(19.65 m.)
18.00-19.15—Variety; Music.
(25.36 m.)
19.30—School of the Air.
20.00—Popular Music.
20.30—Hollace Shaw (Soprano)
with Concert Orchestra.
21.00—Books; Songs.
21.30—Story of Industry.
22.00—Light and Dance Music.
(16.89 m.)
23.30-05.00—For S. America.
23.30—News; Dance Music.
23.45—Variety.
01.30—Al Jolson Show.
02.00-04.00—Variety.
04.00-05.00—Dance Music.

ZEESEN

(16.89 m. 19.63 m.; 19.74 m.;
31.38 m.; 31.45 m.)

05.05—Call (Ger., Eng.); Pot-
pourri.
06.00—News; Potpourri.
07.00—News (Eng.); Topical.
07.30—Talks and Music.
09.30—News; Report.
10.00—Variety; Music.
12.00—News (Eng.); Music.
13.00—News and Review.
13.15—German Peasantry.
14.00—News (Eng., Dutch); Talk.
14.30—Waltzes and Marches.
15.00—Young People's Choir.
15.15-16.00—Grieg Music; Report.

ZEESEN

(19.85 m.; 25.49 m. 49.83 m.)
15.40—Call (Ger., Eng.); Music.
16.15—Carols; Music.
17.15—News; Report: Bell-casting.
17.45—"Winter" from "The
Seasons" (Haydn).
18.30—Talk and Records.
19.00—News (Eng.); Topical.
19.30—Fairy Play with Music.
20.30—Music for Strings (Mozart).
21.00-21.20—News (Ger., Eng.).

ZEESEN

(19.74 m.; 25.49 m.; 49.83 m.)
21.50—Call (Ger., Eng.); "The
Homeland."
22.45—News; Music.
00.15—Topical; Overtures.
01.15—News (Eng.); Liszt.
01.45—Report: Bell-casting.
02.00—News; Songs; Choir.
03.00—Waltzes and Marches.
03.30—News (Eng., Ger.).

WEDNESDAY, Dec. 22

EMPIRE

Transmission 1 (GSG, GSO,
GSD, GSB).
08.15—Big Ben; "Scrapbook for
1913."*
09.15—"Gower Reel."**
09.35—News.
09.55—"World Affairs."**
10.10-10.25—Instrumental Variety.
Transmission 2 (GSJ, GSH,
GSG, GSO).
10.45—Big Ben; Beethoven's
String Quartets.
11.15—Popular Classics.†
11.50—"I Remember."**
12.30—"The Song Reporter"—Ian
Stewart.
12.45—"The Vagabond Lover."
13.00—"World Affairs."**
13.15—Rita Sharpe (Cello).
13.30-13.55—Big Ben; News.

Transmission 3 (GSH, GSG, GSF, GSD).

14.15—Big Ben; Music-Hall.*
15.15—"Welcome Yule."
16.00—Big Ben; News.
16.20-17.05—Part I, "Oliver
Twist" (Dickens).*
Transmission 4 (17.25-20.45
GSG, GSP from 18.45, GSA,
GSD, GSB; 21.00-23.00 GSO,
GSD, GSC, GSB).
17.25—"Festival of Food," by
S. L. Ricardo and John Pudney.*
18.00—Big Ben; News.
18.20—"Gower Reel."**
18.40—"From the London
Theatre."
19.00—Billy Cotton and his Band.
19.45—Talk: "Music in African
Life."
20.00-20.45—Part I, "Oliver
Twist" (Dickens).*

21.00—Big Ben; News.
21.20—Peter Dawson with the BBC
Male Voice Chorus and Theatre
Orchestra.
22.00—"Folly and Mistletoe."
22.40-23.00—Oscar Rabin and his
Romany Dance Band.

Transmission 5 (GSL, GSC, GSB, GSB).

23.20—Royal Air Force Band.
00.00—"Empire Exchange."**
00.15—Guy Jonson (Pfte.).
00.40—News.
01.00-01.30—Big Ben; Billy Cotton
and his Band.

Transmission 6 (GSL, GSD, GSC, GSB).

02.00—Big Ben; Quarterly Tech-
nical talk.*
02.15—Orchestra.
02.55—News.
03.15-04.00—Big Ben; "Welcome
Yule."**

Transmission 7 (GSL, GSD, GSC, GSB).

03.00—Gen. Johnson; Variety.
04.00—News; Music.
05.00-06.00—Orchestras.

BARCELONA

(40 m.)
23.00—News (Foreign Languages).
(20 m.)
00.00—News (Eng.).

BOSTON

(19.67 m.)
19.30-20.00—Monitor News.
00.00-00.30—Music.

BOUND BROOK

(16.87 m.)
14.00—Music.

14.40—News; Music.
16.00—News (It.); Music.
17.00—News; Music.
18.00—News (Fr.); Music.
19.00—News (Ger.); Music.
20.00—News (Fr.); Music.
20.30—Talk (Fr.); New York—
1937; Music.

Transmission 8 (GSL, GSD, GSC, GSB).

21.00—News (Ger.); Music.
21.30—Talk (Ger.): Education in
America; Music.
22.00—News; Music.
22.30—News (Fr., Ger.); Music.
23.30—News; Music.
00.00-02.00—For S. America:
00.00—News (Sp., Port.); Music.
01.00—For Women (Sp.); Music.
(49.18 m.)
02.25-06.00—For S. America:
02.25—Programmes; Music.
03.45—News (Sp.); Music.

BUDAPEST

(32.88 m.)
00.00-01.00 (Thurs.)—Music;
News; Cigány Band; Poems.

HUIZEN

(19.71 m.)
13.00—Variety for India and the
Near East.
14.30-16.00—Variety for the Dutch
Indies and Asia.
(31.28 m.)
00.00—For the West.
01.00-02.30—Variety for Central
and South America.

LYNDHURST

(31.32 m.)
02.35—The Watchman; Music.
03.00-07.00—News; Racing; Music.
08.30—Music; Sports; Talk.
09.20—News; Markets.
10.00—Band; Travel; Music.
11.45—Talk by Baron von Cramm.
12.00—Roy Agnew (Pfte.).
12.30-13.30—News; Records.

MOSCOW

(25 m.)
11.00—For Germany.
11.30—For England.
17.15—For Germany.
(50 m.)
20.00—For Italy; For Germany.
21.00—For France.
22.00—For Germany.
(31.26 m.)
23.00—For Spain.
(31.26 m.; 39.79 m.)
00.00—For England.
(50 m.)
01.30—For Holland.
(25 m.)
03.15—For England.

PARIS (Radio-Colonial)

(25.23 m.)
07.00-09.40—News; Records.
09.40—News (Eng., It.).
(19.69 m.)
11.00—Records; Talk (Russ.).
12.00—News (Eng.); Concert.
12.45—Review; Concert.
13.30—News; Talks; Records.
14.30—Symphony Concert, Violin.
15.55—Exchange.
(25.23 m.)
16.15—News (Fr., Arabic); Music.
18.50—Talk; Radio Journal.
20.10—News (Eng., It.).
20.30—To be announced.
22.30—Markets; News (Port.).
(25.6 m.)
23.15—Records.
00.15—News (Fr., Sp., Port.).
03.00—Records; News.
04.30—News (Eng.); Records.
05.45-06.00—News (Ger.).

PITTSBURGH

(19.71 m.)
14.00—Shopping; Variety.
16.45—Edward MacHugh.
17.00—News; Novelties.
17.30—Farm and Home.
18.30—Strollers; Interlude.
19.30—Home Forum; Variety.
21.15—News; P.T.A. Congress.
22.00—Variety Items.
23.00—News; Interlude.
23.45—Lowell Thomas.
(25.26 m.)
00.00—Variety.
02.30—NBC Minstrel Show.
(48.83 m.)
03.00—Gen. Johnson; Variety.
04.00—News; Music.
05.00-06.00—Orchestras.

PODEBRADY

(31.41 m.)
For Europe.
17.55—News (Czech, Ger.); Music.
21.00-21.40—News (Eng., Ger.);
Music.

ROME

(25.4 m.)
10.00—News; Orchestra.
11.00—News (Eng.); Music; News.
12.31-13.45—News; Music; Talk.

15.00—News; Music; Talk; News (Eng.).
16.20-17.20—Variety; News. (31.13 m.)
17.30—News, Music and Talk (Arabic).
18.11—Talk (Esperanto).
18.27—News and Talks (Hung., Ger., Serb., Fr.).
19.40-19.59—News (Eng.).
23.05-00.30—For S. America; News; Songs; Talk; Music; News (Sp., Port.).
00.35-02.00—For U.S.A.; News (Eng.); "L'Africaine" (Meyerbeer); Talk (Eng.); Music; News.

SCHENECTADY
 (19.57 m.)
16.00—Variety.
17.30—Farm Programme; Variety.
19.00—Health Talk; Variety. (19.57 m. and 31.48 m.)
21.00—Variety.
22.00—News Tower; Variety.
23.00—America's Schools; Rhythm.
23.30—News; Songs; Music.
00.00—Amos 'n' Andy; Sketch (Sp.).
00.30—Stocks; News (Sp.).
01.00—Latin-American Concert. (31.48 m.)
02.00—Town-Hall.
03.00—Hollywood Parade.
04.00-05.00—Orchestras.

TOKIO
 (25.42 m.; 31.46 m.)
 For Europe.
20.00—News (Eng.); Tokio Mixed Orchestra.
20.30-21.00—News (Fr., Ger., Jap.).

VATICAN CITY
 (19.84 m.)
15.30—Church Notes (Sp.). (50.26 m.)
19.00—Church Notes (Sp.).

WARSAW
 (22 m.; 26.01 m.)
23.00-01.00—News (Pol., Eng.); Songs; Talk; Songs; Talk (Eng.).

WAYNE
 (13.94 m.)
12.30—Phil Cook—Variety.
12.55—News; Music.
13.30—Greenfield Village Chapel.
13.45—Music; Songs.
14.25-15.00—News; Fiddler's Fancy. (19.65 m.)
18.00—General Mills—Variety.
19.00-19.15—News for Women. (25.36 m.)
19.30—Christmas Carols.
20.00—Variety.
20.45—Academy of Medicine.
21.00—Curtis Institute of Music.
21.45—Dr. Dafoe—Talk—Music.
22.00-23.00—Orchestra; Dance Music. (16.89 m.)
23.30-05.00—For S. America.
23.30—Dance Music.
23.40—News (Eng., Sp.); Variety.
00.45—Boake Carter—News.
01.00—Cavalcade of America.
01.30—Eddie Cantor—Variety.
02.00—Orchestra and Stars.
02.30—"Tish"—Plays.
03.00—Crime Crusade; Songs.
04.00-05.00—Dance Music.

ZEESEN
 (16.89 m.; 19.63 m.; 19.74 m.; 31.38 m.; 31.45 m.)
05.05—Call (Ger., Eng.); Music.
06.00—News; Music.
07.00—News and Review (Eng.); Talk.
07.30—Fairy Play with Music.
08.30—Waltzes and Marches.
09.00—Mozart Music.
09.30—News; Music.
12.00—News (Eng.); Light Music.
12.50—Greetings to India.
13.00—News; Economics; Songs.
13.45—Liszt Pfte. Music.
14.00—News (Eng., Dutch); Talk.
14.30—Talk with Records.
15.00—"Winter" from "The Seasons" (Haydn).
15.45-16.00—Press Review.

ZEESEN
 (19.85 m.; 25.49 m.; 49.83 m.)
15.40—Call (Ger., Eng.); Music.
16.15—Reading; Songs.
16.50—Concert.
17.15—News.
17.30—"Godchild of the Sun"—Play.
18.00—Variety.
19.00—News (Eng.); Topical.
19.45—Play Excerpts.
21.00-21.20—News (Ger., Eng.).

ZEESEN
 (19.74 m.; 25.49 m.; 49.83 m.)
21.50—Call (Ger., Eng.).
22.00—"Winter" from "The Seasons" (Haydn).
22.45—News; Mozart Music.

23.30—Italian Songs (Wolf).
23.45—Carols; Talk.
00.30—"Godchild of the Sun"—Play.
01.00—Talk.
01.15—News (Eng.); Press Review.
01.45—Kate Kamossa reads.
02.00—News; Play; Records.
03.30—News (Eng., Ger.).

THURSDAY, Dec. 23
EMPIRE

Transmission 1 (GSG, GSO, GSD, GSB).
08.15—Big Ben; Peter Dawson with the BBC Male Voice Chorus and Theatre Orchestra.*
08.55—"Christmas is Coming."*
09.25—Instrumental Music.†
09.35—News.
09.55-10.25—Schubert's Chamber Music.
Transmission 2 (GSJ, GSH, GSG, GSO).
10.45—Big Ben; Cinema Organ.
11.15—"Sportsmen Talking."*
11.30—Instrumental Variety.†
11.45—BBC Singers (A).
12.15—Cinema Orchestra.
12.30—"At the Black Dog."*
13.00—BBC Variety Orchestra.
13.30-13.55—Big Ben; News.

Transmission 3 (GSH, GSG, GSF, GSD).
14.15—Big Ben; Billy Cotton and his Band.*
15.00—Royal Marines Band: Hilda Blake (Soprano).
15.45—Gracie Fields.†
16.00—Big Ben; News.
16.20—Talk by H. G. Wells.*
16.35-17.00—Light Orchestra.

Transmission 4 (17.20-21.00 GSG, GSP from 18.45, GSA, GSD, GSB; 21.15-23.00 GSO, GSD, GSC, GSB).
17.20—Al Gollins and his Dance Orchestra.
18.00—Big Ben; News.
18.20—BBC Empire Orchestra.
19.00—"At the Black Dog."*
19.30—Dale Smith (Baritone).
20.00-21.00—Jack Payne's Party.
21.15—Big Ben; News.
21.35—"Welcome Yule."*
22.20—BBC Orchestra.
22.40 (approx.)-23.00—Circus Acts in Training.*

Transmission 5 (GSL, GSC, GSB, GSB).
23.20—For Canadian listeners.
23.40—Jack Payne's Party.*
00.40—News.
01.00-01.30—Big Ben; "The Wec Moiley Cow," an Ulster comedy.

Transmission 6 (GSL, GSD, GSC, GSB).
02.00—Big Ben; "At the Black Dog."*
02.30—Peter Dawson with the BBC Male Voice Chorus and Theatre Orchestra.*
03.10—News.
03.30-04.00—Big Ben; Chamber Music.

BARCELONA
 (40 m.)
23.00—News (Foreign Languages).

BOSTON
 (19.67 m.)
19.30-20.00—Monitor News. (25.45 m.)
22.00-22.30—Literature. (49.67 m.)
00.00-00.30—Music.

BOUND BROOK
 (16.87 m.)
14.00—Music.
14.40—News; Music.
16.00—News (It.); Music.
17.00—News; Music.
18.00—News (Fr.); Music.
19.00—News (Ger.); Music.
20.00—News (Fr.); "La Revue des Spectacles"; Music.
21.00—News (Ger.); Music.
21.30—For Women (Ger.); Music.
22.00—News; Music.
22.30—News (Fr., Ger.); Music.
23.30-23.40—News; Music.
00.00-02.00—For S. America.
00.00—News (Sp., Port.); Music.
01.00—Music Review (Sp.); Music.
01.30—Talk (Sp.); Music. (49.18 m.)
02.25-06.00—For S. America.
02.25—Programme Notes; Music.
04.00—News (Sp.); Music.
05.00-06.00—Rebroadcast of Events.

HUIZEN
 (16.88 m.)
 For the Dutch Indies.
13.25—Call; Stocks; Topical.
14.00—Hemerik ("Cello"); Talk.
14.40-14.55—News; Anthem. (31.28 m.)
00.00-02.30—For S. America.

LYNDHURST
 (31.32 m.)
02.35—The Watchman; Music.
03.00-07.00—News; Music.
08.30—Music; Sports; News (Fr.).
09.20—News; Music.
12.00—Chorus; Music.
12.30-13.30—News; Dance Music.

MOSCOW
 (25 m.)
11.00 and 17.15—For Germany. (50 m.)
20.00—For Italy; For Germany.
21.00—For France.
22.00—For Spain. (31.26 m.)
23.00—For Spain. (31.26 m.; 39.79 m.)
00.00—For England. (50 m.)
01.30—For France. (25 m.)
03.15—For England.

PARIS (Radio-Colonial)
 (25.23 m.)
07.00-09.40—News; Records.
09.40—News (Eng., It.). (19.69 m.)
11.00—Records; Talk (Sp.).
12.00—News (Eng.); Concert.
12.45—Review; Concert.
13.30—News; Talks; Music.
14.30—Chamber Music, Songs.
15.55—Exchange. (25.23 m.)
16.15—News (Fr., Arabic); Music.
18.45—Poems; Radio Journal.
20.10—News (Eng., It.).
20.30—To be announced.
22.30—Markets; News (Port.). (25.6 m.)
23.15—Records.
00.15—News (Fr., Sp., Port.).
00.30—Records; News.
04.30—News (Eng.); Records.
05.45-06.00—News (Ger.).

PITTSBURGH
 (19.71 m.)
14.00—Shopping; Variety.
16.45—Edward MacHugh.
17.00—News; Novelties.
17.30—Farm and Home.
18.30—Utility Hall; Variety.
19.30—Home Forum; Music.
20.15—Rochester Philharmonic.
21.00—To be announced.
21.15—News; Women's Clubs.
22.00—Variety.
23.00—News; Broadway Stars.
23.45—Lowell Thomas. (25.26 m.)
00.00—Variety.
01.00—Gen. Johnson; Songs.
01.30—March of Time.
02.00—News; NBC Concerts.
02.30—Town Meeting. (48.83 m.)
03.30—Aunt Martha; Jamboree.
04.00—News; Music.
05.00-06.00—Orchestras.

PODEBRADY
 (31.41 m.)
 For Europe.
17.55—News (Czech, Ger.); Music.
21.00-21.40—News (Eng., Fr.); Music.

ROME
 (25.4 m.)
10.00—News; Music.
11.00—News (Eng.); Music; Talk; News.
12.31-13.45—Music; Discussion; Quartet.
15.00—News; Music; News (Eng.).
16.20-17.20—Sports; Music; News. (31.13 m.)
17.30—News, Music and Talk (Arabic).
18.11—Talk (Esperanto).
18.27—News and Talks (Hung., Ger., Serb., Fr.).
19.40-19.59—News (Eng.).
23.05-00.30—For S. America; News; Music; News (Sp., Port.).
00.35-02.00—For U.S.A.; News; Choir; Talk; Music; News.

SCHENECTADY
 (19.57 m.)
16.00—Variety.
17.30—Farm Programme; Variety.
19.00—NBC Music Guild.
19.30—Alissa Kier; Variety. (19.57 m.; 31.48 m.)
21.00—Variety.
22.00—News Tower; Variety.
23.30—News; Stocks.
00.00—Amos 'n' Andy.
00.15—News (Sp.); Science Forum.
01.00—Rudy Vallee. (31.48 m.)
02.00—Good News of 1938.
03.00—Bing Crosby.
04.00-05.00—NBC Concert Hour. Conductor: Spitalny.

TOKIO
 (25.42 m.; 31.46 m.)
 For Europe.

26.00—News (Eng.); Talk; The War.
20.30-21.00—News (Fr., Ger., Jap.).

VATICAN CITY
 (19.84 m.)
15.30—Church Notes (Fr.). (50.26 m.)
19.00—Church Notes (Fr.).

WARSAW
 (22 m.; 26.01 m.)
23.00-01.00—News (Pol., Eng.); Talk; Bass; Violin; Talk; Reading (Eng.); Songs.

WAYNE
 (22 m.; 26.01 m.)
12.30—Phil Cook—Variety.
12.55—News; Variety.
14.00—Dear Columbia—Music.
14.25-15.00—News; Songs. (19.65 m.)
18.00—Variety.
19.00-19.15—Lyric Serenade. (25.36 m.)
19.30—School of the Air.
20.00—Theatre Matinée; Music.
21.00—Ted Malone—Books.
21.15—Science Service.
21.30—U.S. Army Band.
22.00—Light and Dance Music. (16.89 m.)
23.30-05.00—For S. America.
23.30—Sports; News; Variety.
02.00—Major Bows' Hour.
03.00—Buddy Clark.
03.30—Columbia Workshop.
04.00-05.00—Dance Music.

ZEESEN
 (16.89 m.; 19.63 m.; 19.74 m.; 31.38 m.; 31.45 m.)
05.05—Call (Ger., Eng.); Music.
06.00—News; Music.
06.50—Greetings to Australia.
07.00—News (Eng.); Talk.
07.30—"Godchild of the Sun"—Play.
08.00—Talk with Records.
08.30—Variety.
09.30—News and Review.
09.45—Talk (Eng.).
10.00—Fairy Play with Music.
11.00—Light Music.
12.00—News (Eng.); Music.
13.00—News; Review; Overtures.
14.00—News (Eng., Dutch); Talk.
14.30—Play Excerpts.
15.45-16.00—Talk (Eng.).

ZEESEN
 (19.85 m.; 25.49 m.; 49.83 m.)
15.40—Call (Ger., Eng.); Music.
16.15—Talk; Old Toys.
16.30—Pfte. Sonata (Haydn).
16.50—Concert.
17.15—News; Talk (Eng.); Band.
19.00—News (Eng.); Topical.
19.30—"Christmas at Sea"—Play.
20.30—Songs and Poems.
21.00-21.20—News (Ger., Eng.).

ZEESEN
 (19.74 m.; 25.49 m.; 49.83 m.)
21.50—Call (Ger., Eng.); Music.
22.15—Talk with Records.
22.45—News; Band; Topical.
00.30—Variety.
01.15—News (Eng.); Variety.
01.45—Talk (Eng.); German Achievements.
02.00—News; Operetta Airs.
03.30—News (Eng., Ger.).

FRIDAY, Dec. 24
EMPIRE

Transmission 1 (GSG, GSO, GSD, GSB).
08.15—Big Ben; "Welcome Yule."*
09.00—Talk by H. G. Wells.*
09.15—Daisy Kennedy (Violin).
09.35—News.
09.55-10.25—"At the Black Dog."*
Transmission 2 (GSJ, GSH, GSG, GSO).
10.45—Big Ben; Jack Payne's Party.*
11.45—Christmas talk.*
11.50—Peter Dawson with the BBC Male Voice Chorus and Theatre Orchestra.*
12.30—Henry Hall's Dance Orchestra.
13.10—"Gower Reel."*
13.30-13.55—Big Ben; News.

Transmission 3 (GSH, GSG, GSF, GSD).
14.15—Big Ben; Variety.*
14.45—"I Remember."*
15.25—Festival of Nine Lessons and Carols.
16.00—Big Ben; News.
16.20-17.00—Part 2, "Oliver Twist" (Dickens).

Transmission 4 (17.20-20.45 GSG, GSP from 18.45, GSA, GSD, GSB; 21.00-23.00 GSO, GSD, GSC, GSB).
17.20—Mario de Pietro and his Estudiantina.
17.45—Talk by H. G. Wells.*
18.00—Big Ben; News.

18.20—Tango Orchestra.
19.00—Part 2, "Oliver Twist" (Dickens).*
19.40—James Whitehead ("Cello").
20.00—Carol Service.
20.30-20.45—Border Ballads.
21.00—Big Ben; News.
21.20—"BBC Ballroom, 1909."*
22.00—"Sportsmen Talking."*
22.15—New Dance Numbers.†
22.30-23.00—"At the Black Dog."*
Transmission 5 (GSL, GSC, GSB, GSB).
23.20—Talk by H. G. Wells.*
23.35—Reginald Foort (BBC Theatre Organ).
00.00—Big Ben; "I Remember."*
00.40—News.
01.00-01.30—Big Ben; Festival of Nine Lessons and Carols.

Transmission 6 (GSL, GSD, GSC, GSB).
02.00—Big Ben; Christmas Music.†
02.30—Part 2, "Oliver Twist" (Dickens).*
03.10—News.
03.30-04.00—Big Ben; Carol Service.*

BARCELONA
 (40 m.)
23.00—News (Foreign Languages). (20 m.)
00.00—News (Eng.).

BOSTON
 (19.67 m.)
19.30-20.00—Monitor News. (25.45 m.)
22.00-22.30—Behold the City—Bethlehem. (49.67 m.)
00.00-00.30—Music.
01.15-02.00—Christmas Eve on Beacon Hill.

BOUND BROOK
 (16.87 m.)
14.00—Music.
14.40—News; Music.
16.00—News (It.); Music.
17.00—News; Music.
18.00—News (Fr.); Music.
19.00—News (Ger.); Music.
20.00—News (Fr.); Music.
20.30—Talk (Fr.) with Records.
21.00—News (Ger.); Music.
21.30—Talk (Ger.); Music.
22.00—News; Music.
22.30—News (Fr., Ger.); Music.
23.30—News; Music.

00.00-02.00—For S. America.
00.00—News; For Women.
00.45—Music; Talk; Records.
01.15—"Cities Service." (49.18 m.)
02.25-06.00—For S. America.
02.25—Programmes; Music.
04.00—News (Sp.); Music.

HUIZEN
 (16.88 m.)
 For the Dutch Indies.
13.25—Call; Stocks; Talk.
14.00—Records; Review.
14.50-15.00—News; Anthem.

LYNDHURST
 (31.32 m.)
02.35—The Watchman; Music.
03.00-07.15—News; Cricket; Music.
08.30—Music; Sports; Books.
09.20—News; Bands.
11.00—"Christmas in other Lands."
12.00—Dance Band.
12.30-14.00—News; Dances; Carols.

MOSCOW
 (25 m.)
11.00 and 17.15—For Germany. (50 m.)
20.00—For Italy; For Germany.
21.00—For France.
22.00—For Germany. (31.26 m.)
23.00—For Spain. (31.26 m.; 39.79 m.)
00.00—For England. (50 m.)
01.30—For Portugal. (25 m.)
03.15—For England.

PARIS (Radio-Colonial)
 (25.23 m.)
07.00—News; Records.
09.40—News (Eng., It.). (19.69 m.)
11.00—Records; Talk (Rom.).
12.00—News (Eng.); Concert.
12.45—Review; Concert.
13.30—News; Talks; Music.
14.30—Operetta (Audran).
15.55—Exchange. (25.23 m.)
16.15—News (Fr., Arabic); Music.
18.50—Science; Radio Journal.
20.10—News (Eng., It.).
20.30—To be announced.
22.45—News (Port.). (25.6 m.)
23.15—Concert.
00.15—News (Fr., Sp., Port.).
03.00—Records; News.
04.30—News (Eng.); Records.
05.45-06.00—News (Ger.).

PITTSBURGH

(19.71 m.)
 14.00—Shopping; Variety.
 16.45—Edward MacHugh.
 17.00—News; Novelties.
 17.30—Farm and Home.
 18.30—Home Forum.
 19.00—Music Appreciation; Cugat.
 20.15—D.A.R.; Variety.
 21.15—News; Club Matinée.
 22.00—Variety.
 23.00—News; Interlude.
 23.45—Lowell Thomas.
 (25.26 m.)
 00.00—Variety; Talk.
 01.00—Grand Central Station.
 01.30—Death Valley; Variety.
 (48.83 m.)
 03.00—Paul Martin; Variety.
 04.00—News; Music.
 05.15-06.00—DX; Orchestras.

PODEBRADY

(31.41 m.)
 For Europe.
 17.55—News (Czech, Ger.); Music.
 21.00-21.40—News (Eng., Fr.); Music.

RADIO-NATIONS

League of Nations Reports: (26.31 m.)
 19.00—In English.
 (32.1 m.)
 19.30—In French.
 00.30—In English.
 01.00—In Spanish.

ROME

(25.4 m.)
 10.00—News; Music; News (Eng.).
 11.00—Orchestra; Songs; News (Eng., It.).
 12.30-13.45—News; Concert; Talk; Songs; Organ.
 15.00—News; Organ; Italian Lesson; Pipes; News (Eng.).
 16.20-17.20—Music; News.
 (31.13 m.)
 17.30—News, Music and Talk (Arabic).
 18.11—Talk (Esperanto).
 18.27—News and Talks (Hung., Ger., Scrub., Fr.).
 19.40-19.59—News (Eng.).
 23.05-00.30—For S. America: News; "Christmas"—Musical Sequence; Talk; News (Sp., Port.).
 00.35-02.00—For U.S.A.: News (Eng.); Music; Sports; News.

SCHENECTADY

(19.57 m.)
 16.00—Variety.
 17.30—Farm Programme; Variety.
 19.00—Christmas Programme; Variety.
 (19.57 m.; 31.48 m.)
 21.00—Variety.
 22.00—News Tower; Variety.
 23.00—Education; Rhythm.
 23.30—News; Spanish Programme.
 00.00—Amos 'n' Andy; Uncle Ezra.
 00.30—Stocks; News (Sp.).
 01.00—Soprano.
 01.30—Farm Forum.
 (31.48 m.)
 02.00—Waltzes; Literature (Sp.).
 03.00—First Nighter.
 03.30—Hollywood Gossip.
 03.45-05.00—News; Orchestras.

TOKIO

(25.42 m.; 31.46 m.)
 For Europe.
 20.00—News and Talk (Eng.).
 20.30-21.00—News (Fr., Ger., Jap.).

VATICAN CITY

(19.84 m.)
 15.30—Church Notes (Ger. or It.).
 19.00—Church Notes (Ger.).

WARSAW

(22 m.; 26.01 m.)
 23.00-02.00—Midnight Mass; Address by Cardinal Hlond; A Story; Polish Music.

WAYNE

(13.94 m.)
 12.30—Phil Cook—Variety.
 12.55—News; Music; Songs.
 14.25-15.00—News; Sunny Melodies.
 (19.65 m.)
 18.00—Variety.
 19.00-19.15—For Women.
 (25.65 m.)
 19.30—School of the Air.
 20.00—Columbia Concert Hall.
 20.30—Ann Leaf (Organ).
 20.45—Four Clubmen—Music.
 21.00—Ted Malone—Books.
 21.15—Gold Coast Music.
 21.30—Questions before Congress.
 21.45—Dr. Dafoe—Talk—Music.
 22.00-23.00—Dance Music.
 (16.89 m.)
 23.00-05.00—For S. America.
 23.30—News; Music; Variety.

00.15—Football Parade.
 00.30—Margaret Daum (Soprano).
 00.45—Boake Carter.
 01.00—Music-Hall; Variety.
 04.00—Dance Music.

ZEESEN

(16.89 m.; 19.63 m.; 19.74 m.; 31.38 m.; 31.45 m.)
 05.05—Call (Ger., Eng.); Songs.
 06.00—News; Music.
 06.05—Greetings to New Zealand.
 07.00—News and Review (Eng.); Talk.
 07.30—Christmas Celebrations.
 07.45—Christmas Variety.
 08.15—Christmas Talks; Carols.
 09.00—Folk Programme.
 09.30—News; Review; Topical.
 10.00—"Christmas at Sea"—Play.
 11.00—Light Music.
 12.00—News (Eng.); Music.
 13.00—News and Review.
 13.15—Christmas Variety.
 13.45—Soprano Songs (Franz).
 14.00—News (Eng., Dutch); Talk.
 14.30—Old Carols; Talks.
 15.15—Folk Programme.
 15.45-16.00—Topical.

ZEESEN

(19.85 m.; 25.49 m.; 49.83 m.)
 15.40—Call (Ger., Eng.); Music.
 16.15—Carols.
 16.50—Christmas Celebrations.
 17.00—Music.
 17.15—News; Topical.
 17.45—Variety by Children.
 18.15—Light Music.
 19.00—News (Eng.); Topical.
 19.30—"Home Again!"—Concert.
 20.00—Christmas Oratorio (Bach).
 21.00-21.20—News (Ger., Eng.).

ZEESEN

(19.74 m.; 25.49 m.; 49.83 m.)
 21.50—Call (Ger., Eng.).
 22.00—Christmas at Home.
 22.15—Christmas Chats.
 22.30—Light Music.
 22.45—News; Variety.
 23.30—Pfte. Sonata (Haydn).
 23.45—"Coming Home"—Concert.
 00.15—Topical; Music.
 01.15—News (Eng.); Songs; Talk.
 02.00—News; Christmas Greetings to Astoria.
 02.30—Christmas Oratorio (Bach).
 03.30—News (Eng., Ger.).

CHRISTMAS DAY EMPIRE

Transmission 1 (GSG, GSO, GSD, GSB).
 08.15—Big Ben; Selections from "The Messiah" (Handel).
 09.40—News.
 09.45-10.25—Big Ben; "I Remember."
 Transmission 2 (GSJ, GSH, GSG, GSO).
 10.45—Big Ben; Belinda Heather (Pfte.).
 11.00—Christmas Morning Service.
 11.55—Talk by H. G. Wells.
 12.10—"BBC Ballroom, 1909."
 12.50—Part 2, "Oliver Twist" (Dickens).
 13.30—Big Ben; News.
 13.35-13.55—Theatre Orchestra.
 Transmission 3 (GSH, GSG, GSF, GSD).
 14.15—Big Ben; Carol Service.*
 14.45—BBC Military Band.
 15.00—His Majesty the King, followed by the BBC Military Band.
 15.30—"At the Black Dog."
 16.00—Big Ben; "The Lamp of Al-addin," a Tale of the East.
 17.00-17.10—Big Ben; News.
 Transmission 4 (17.30-21.00 GSG, GSP from 18.45, GSA, GSD, GSB; 21.15-23.00 GSO, GSD, GSC, GSB).
 17.30—Big Ben; Harry Roy and his Band.
 17.55—Musical Interlude.†
 18.00—Christmas Evening Service.
 18.50—News.
 19.00—BBC Military Band.*
 19.15—His Majesty the King, followed by the BBC Military Band.*
 19.40-21.00—Radio Christmas Party.
 21.15—Big Ben; News.
 21.25—"I Remember."
 22.05—BBC Military Band.*
 22.20—His Majesty the King, followed by the BBC Military Band.*
 22.45-23.00—Dance Music.

Transmission 5 (GSL, GSC, GSB, GSB)

23.20—"Home, Sweet Home."
 00.00—Big Ben; "Welcome Yule."
 00.45—News.
 00.55—BBC Military Band.*
 01.10-01.30—His Majesty the King, followed by the BBC Military Band.*

Transmission 6 (GSL, GSD, GSC, GSB)

02.00—Big Ben; Maurice Vinden (Organ).
 02.20—Irish Songs.
 02.40—"BBC Ballroom, 1909."
 03.20—News.
 03.30—Big Ben; BBC Military Band.*
 03.45—His Majesty the King, followed by the BBC Military Band.*

BARCELONA

(40 m.)
 23.00—News (Foreign Languages).

BOUND BROOK

(16.87 m.)
 14.00—Music.
 14.40—News; Music.
 16.00—News (It.); Music.
 16.30—For Women (It.); Music.
 17.00—News; Music.
 18.00—News (Fr.); Music.
 19.00—News (Ger.); Music.
 20.00—News (Fr.); Music.
 21.00—Talk (Fr.); Music.
 21.30—Travel Talk (Ger.); Music.
 22.00—News; Music.
 22.30—News (Fr., Ger.); Music.
 23.30—News; Music.
 00.00-02.00—For S. America.
 00.00—News (Sp., Port.); Music.
 (49.18 m.)
 02.25-06.00—For S. America:
 02.25—Programmes; Barn Dance.
 03.00—NBC Symphony Conductor: Artur Rodzinski.
 04.30—News (Sp.); Music.
 05.00-06.00—Rebroadcast of Special Events.

BUDAPEST

(32.88 m.)
 23.00-00.00—Carols; Talk; News; Pfte.; Cigány Band.

HUIZEN

(16.88 m.)
 For the Dutch Indies.
 13.25—Call; Carillon from St. John's, Bois-le-Duc.
 13.40—Protestant Address by the Rev. G. J. Sirks.
 14.00—Christmas Oratorio (Bach)—Caro Bouwmeester (Contraalto), v. d. Ploeg (Tenor), Rotterdam Philharmonic Orchestra and Choir. Conductor: Flipse.
 14.30—"Hans the Bell-Ringer"—Fairy Play (Fabricius); Incidental Music by Loe Cohen.
 15.20—Phoeb Club.
 15.40-15.50—News; Anthem.
 (31.28 m.)
 19.00-20.00—For Africa: Talks; Christmas Music.

LYNDHURST

(31.32 m.)
 02.35—Records.
 03.00-07.30—Cricket Results; Music.
 08.30—Chimes; News.
 08.40—Talk by Helen Simpson from London: Christmas in England; Music.
 09.00—"Christmas Garland."
 09.50—Music.
 10.00-12.30—"The Messiah" (Handel).

MOSCOW

(25 m.)
 11.00 and 17.50—For Germany.
 (50 m.)
 20.00—For Italy; For Germany.
 21.00—For France.
 22.00—For Spain.
 (31.26 m.)
 23.00—For Spain.
 (32.26 m.; 39.79 m.)
 00.00—For England.
 (50 m.)
 01.30—For France.
 (25 m.)
 03.15—For England.

PARIS (Radio-Colonial)

(25.23 m.)
 07.00—News; Records.
 08.30—Press Review; Records.
 09.00—News; Records.
 09.40—News (Eng., It.).
 (19.69 m.)
 11.00—Records.
 11.45—Talk (Yugoslav).
 12.00—News (Eng.).
 12.15—Concert.
 12.45—Records.
 13.00—Concert.
 13.30—News.
 14.00—Talks; Records.
 14.30—"Joyeux Noel"—Sketch (Pierre and Robert Constantin-Brive).
 15.45—Mme Andrée Marguy (Songs).
 (25.23 m.)
 16.15—News (Fr., Arabic).
 17.00—Concerts.
 18.50—Talk.
 19.00—News.

20.10—News (Eng., It.).
 20.30—To be announced.
 22.30—Markets.
 22.45—News (Port.).
 (25.6 m.)
 23.15—Concert.
 00.15—News (Fr., Sp., Port.).
 01.00—Talk.
 03.00—Records.
 04.00—News (Fr., Eng.).
 04.45—Records.
 05.45-06.00—News (Ger.).

PITTSBURGH

(19.71 m.)
 14.00—Breakfast Club.
 14.45—Aunt Jemima.
 15.00—Sweethearts of the Air.
 15.15—Swing Serenade.
 15.30—The Child Grows Up.
 15.45—Bill Krenz and Orchestra.
 16.00—Joan Brooks (Contraalto).
 16.15—Minute Men.
 16.30—Our Barn.
 17.00—News.
 17.15—Novelties.
 17.30—Farm and Home.
 18.30—Club Matinée.
 19.30—Oriental Gardens Orchestra.
 20.00—To be announced.
 21.15—News Reeler.
 22.30—Orchestra.
 22.45—Home of the Muses.
 23.00—News.
 23.15—Melody Time.
 23.30—Sports.
 23.45—Johnny O'Brien's High Hats.
 (25.26 m.)
 00.00—Message of Israel.
 00.30—Uncle Jim's Question Bee.
 01.00—Hotel Bismarck Orchestra.
 01.30—Linton Wells.
 01.45—Joan Brooks (Songs).
 02.00—National Barn Dance.
 (48.83 m.)
 03.00—NBC Symphony Orchestra.
 04.00—News.
 04.15—The Music you want.
 05.00—Middleman's Orchestra.
 05.15—New Penn Orchestra.
 05.30-06.00—Far North Messages.

PODEBRADY

(31.41 m.)
 For Europe.
 17.55—News (Czech, Ger.); Music.
 21.00-21.40—News (Eng., Fr.); Music.

ROME

(25.4 m.)
 10.00—News; Band; Christmas Music.
 11.00—News (Eng., Fr.); Organ; Christmas Music; News (Jap., It.).
 12.30-13.45—News; Review; Christmas Music; Moretti Music.
 15.00—News (It., Fr.); Opera Music; Carols; Tenor and Soprano Songs; News (Hind., Eng.).
 16.20—Sports; Songs in Dialect; Christmas Music; News.
 (31.13 m.)
 17.30—News, Music and Talk (Arabic).
 18.11—Talk in Esperanto.
 18.27—News and Talk (Hung.).
 18.42—News and Talk (Ger.).
 19.01—News (Serb.).
 19.21—News and Talk (Fr.).
 19.40—News (Eng.).
 23.05-00.30—For South America: News; Christmas Programme; News (Sp., Port.).
 00.35-02.00—For U.S.A.: News (Eng.); Christmas Programme; News.

SCHENECTADY

(19.57 m.; 31.48 m.)
 16.00—Florence Hale's Radio Forum.
 16.15—Ford Rush and Silent Slim.
 16.30—"Half-Past Eleven."
 16.45—The Gay Nineties.
 17.00—Allen Loefer's Orchestra.
 17.30—Rex Battle's Concert Ensemble.
 18.00—Don Bestor's Orchestra.
 18.30—Campus Capers.
 19.00—Your Host is Buffalo.
 19.30—Golden Melodies.
 20.00—Concert Miniatures.
 20.30—Week-end Revue.
 21.30—Norman Cloutier's Orchestra.
 22.00—Top Hatters.
 22.30—Kaltenmeyer's Kindergarten.
 23.00—El Chico, Spanish Revue.
 23.30—News.
 23.35—Strolling Songsters.
 23.45—Religion in the News.
 00.00—William Scott's Orchestra.
 00.30—Stocks.
 01.00—Believe it or not, by Ripley.
 01.30—Jack Haley's Log Cabin.
 (31.48 m.)
 02.00—Al Roth's Orchestra.
 02.30—Special Delivery.
 03.00—NBC Symphony Orchestra. Conductor: Toscanini.
 04.30-05.00—Al Donahue's Orchestra.

TOKIO

(25.42 m.; 31.46 m.)
 For Europe.
 20.00—News (Eng.); Variety.
 20.30-21.00—News (Fr., Ger., Jap.).

VATICAN CITY

(19.84 m.)
 15.30—Church Notes (Various Languages).
 (50.26 m.)

18.00—Sacred Concert from the Vatican. Compositions of Monsignor Lorenzo Perosi by the E.I.A.R. Symphony Orchestra and the Choir of the Sistine Chapel. Conductor: The Composer, with Benjamin Gigli (Tenor), etc. Vocal Quartet, Choir and Orchestra: "Incun-dare filia Sion." Prelude to Part II of the Oratorio, "Il Natale del Redentore." Tenor, Choir and Orchestra: "Ave Maria" from the Oratorio "Il Natale del Redentore." Choir and Orchestra: Pastoral. Tenor, Choir and Orchestra: Natalità. Tenor, Choir, Vocal Quartet and Orchestra: (a) Le beatudini, (b) Benedizione degli eletti, (c) Inno alla Pace from "Il Giudizio Universale." Tenor Solos. Solo Voice, Choir and Orchestra: Inno alla Giustizia from "Il Giudizio Universale."
 19.00—Church Notes (Various Languages).

WARSAW

(22 m.; 26.01 m.)
 23.00-02.00—Play; Music; Reading Carols.

WAYNE

(13.94 m.)
 13.00—Music.
 14.55—News; Music.
 15.30—Fairy-Tale Plays.
 16.00—Cincinnati Conservatoire of Music.
 17.00—Dance Music.
 (19.65 m.)
 19.30-20.00—Ann Leaf (Organ); Tours in Tone.
 20.30—Waltzes of the World.
 20.45—Dictators.
 21.00—Hollywood Hotel.
 22.00-22.45—"Christmas Carol" (Dickens), with Lionel Barrymore.
 (16.89 m.)
 23.30-05.00—For S. America.
 23.30—Sports; Dance Music.
 00.00—Swing Session; Band.
 01.00—Drama; Music.
 01.30—Variety; Drama.
 02.00—Professor Quiz; Music.
 03.00—Dance Music; Songs.
 04.00—Dance Music.

ZEESEN

(16.89 m.; 19.63 m.; 19.74 m.; 31.38 m.; 31.45 m.)
 05.05—Call (Ger., Eng.); Music.
 06.00—News; Music.
 07.00—News and Review (Eng.).
 07.15—Topical.
 07.30—Band; Orchestra.
 09.30—News and Review; Talk.
 10.00—Light Music.
 12.00—News (Eng.); Light Classical Music.
 13.00—News and Review.
 13.15—Songs and Poems.
 13.45—Pfte. Sonata in E flat (Haydn).
 14.00—News and Review (Eng., Dutch); Topical; Music.
 14.45—"Christmas Oratorio" (Bach).
 15.45-16.00—Talk.

ZEESEN

(19.85 m.; 25.49 m.; 49.83 m.)
 15.40—Call (Ger., Eng.).
 15.45—Concert.
 16.15—Songs and Old Customs.
 16.45—Greetings.
 16.50—Concert.
 17.30—Talk.
 17.40—"Hansel and Gretel" (Humperdinck).
 19.00—Light Music.
 19.15—Topical.
 19.30—Waltzes—Orchestra.
 20.00-21.00—Folk-Music.

ZEESEN

(19.74 m.; 25.49 m.; 48.83 m.)
 21.50—Call (Ger., Eng.).
 22.00—Light Music.
 23.00—Waltzes.
 00.00—Organ.
 00.30—Songs and Poems.
 01.00—Old Christmas Carols.
 01.30—Folk Programme: The Christmas Festival.
 01.45—Soprano, Cello, Pfte.
 02.15—"Hansel and Gretel" (Humperdinck).
 03.30—The Close of Christmas Day.

What Would You

	SUNDAY, Dec. 19	MONDAY, Dec. 20	TUESDAY, Dec. 21
Symphony Concerts Operas	3.0 Brussels 1: Christmas Oratorio. 4.0 Turin group: Molinari. 5.0 Radio-Paris: Lamoureux. 6.30 Berlin: "The Magic Flute." 7.0 Frankfurt, Cologne: "Tsar and Carpenter." 7.0 Munich: "Princess Swanwhite." 7.5 Prague: Symphony (Franck). 7.55 Hilversum 2: "The Barber of Bagdad." 8.0 Brussels 1: "The Queen of Sheba" (Goldmark).	7.0 Deutschlandsender: Conductor, Kabasta, Henry Holst (vln.). 8.0 Rome, Turin groups: Toti dal Monte (soprano), etc. 8.0 Vienna: Opera music. 8.10 Budapest 1: Mozart, Vikes, Trapp. 8.30 Lyons, etc.: "Der Freischütz." 8.30 Radio - Paris: "Gwendoline" (Chabrier). 9.0 Warsaw: Mozart, Beethoven.	7.0 Beromünster: Conductor, Volkmar Andraea. 7.15 Bucharest: Mozart. 7.30 Sottens: Christmas oratorio (Maurice). 7.55 Hilversum 1: Maestricht Orch.; Panzera (baritone). 8.0 Rome group: "Il Trovatore." 8.30 Eiffel Tower: Rhené-Baton, Dupré. 8.30 Paris (PTT): Opéra-Comique. 8.35 Kalundborg: Handel, Mozart.
Chamber Music Recitals	5.0 Deutschlandsender: Christmas songs. 6.15 Oslo: Violin, viola. 6.40 Vienna: Soprano arias. 7.0 Brussels 2: Tcherpnin (pfte.). 7.20 Sottens: Orchestra, songs. 7.30 Radio-Paris: Songs. 8.0 Eiffel Tower: Song, pfte. 9.0 Stockholm: Vln., pfte., song. 9.0 Warsaw: Arias; 9.25, Violin, pfte. 9.15 Rome group: Organ. 9.30 Hamburg: Quintet (Schubert).	2.45, 4.0 Radio-Paris: Pfte., song. 4.0 Paris (PTT): Organ. 6.30 Brussels 1: Quartet (Schubert). 7.10 Hilversum 2: Orloff (pfte.). 7.15 Hamburg: Old and new music. 7.30 Bucharest: Romanian music. 8.0 Paris (PTT): Jean Rivier prog. 8.10 Breslau: Quartets. 8.10 Munich: Cantata. 9.25 Kalundborg: Beethoven, op. 131. 9.35 National: D'Aranyi (vln.), Myra Hess (pfte.). 11.0 Stuttgart, Frankfurt: Serenade.	4.0 Radio-Paris: Inter-allied concert. 6.10 Bucharest: Old music. 6.10 Cologne: Baroque music. 6.30 Paris (PTT): Cello, pfte. 7.0 Breslau: Pianoforte (Beethoven). 7.10 Oslo: Amalie Christie (pfte.). 8.0 Eiffel Tower: Pfte., song. 8.15 Deutschlandsender: Folk-songs. 8.30 Regional: Firkusny (pfte.). 8.30 Strasbourg: Cathedral concert. 8.45 Athlone: Carols. 9.40 Sottens: Song.
Plays and Feature Programmes	2.0 Paris (PTT): "Miss BA." 4.0 Radio-Paris: Radio plays. 5.0 Beromünster: Dialect fairy-play. 8.0 Turin group: "Trampoli" (Pugliese). 8.30 Paris (PTT): "Lord Byron." 8.30 Strasbourg: Alsatian prog.	7.0 Monte Ceneri: "Danee 'me terra." 7.45 Athlone: "Father Noah." 8.0 Königsberg: Folk-song play. 8.30 Strasbourg: Sketches. 9.0 Brussels 1: "Don Quixote." 9.15 Rome group: Lopez play.	8.15 Frankfurt: Hans Andersen play. 9.0 Brussels 1: "Don Quixote," pt. 2. 9.0 Poste Parisien: "Quadrille" (Guitry). 9.30 Radio - Paris: "The Good Hope" (Heijermans).
Light Orchestral Bands Operettas	12.30 Radio-Paris: Pascal Orchestra. 2.0 Kalundborg: Radio Orchestra. 3.0 Cologne, etc.: Variety concert. 4.0 Paris (PTT): Band. 5.0 Berlin: Fröhlich Band. 6.30 Stockholm: Popular orchestral. 6.50 Warsaw: Nowowiejski prog. 7.0 Königsberg: Orch. and instrumental. 7.0 Stuttgart, Hamburg: Christmas music. 7.10 Vienna: Folk music. 7.20 Oslo: Soffi Schönning (Soprano). 7.30 Budapest 1: Orchestra, flute. 8.0 Rome group: Band concert. 8.10 Monte Ceneri: Verdi prog. 8.15 Kalundborg: Preil's Ensemble. 9.30 Radio - Toulouse: Operetta music. 9.30 Vienna: "On short waves round the world." 10.0 Budapest 1: Cigány Band. 11.0 Frankfurt, Stuttgart: Records.	12.0 Radio-Paris: Lafargue Orch. 1.30 Kalundborg: Orchestra. 3.0 Deutschlandsender: Orchestra. 5.0 Radio-Paris: Bailly Orch. 6.0 Bucharest: Waltzes, marches. 6.10 Cologne: Scandinavian and Strauss prog. 6.15 Stuttgart: Popular prog. 6.30 Stockholm: Bund Band. 7.0 Kalundborg: Christmas concert. 7.0 Oslo: Popular orchestral. 7.0 Warsaw: "Vienna, old and new." 7.45 Sottens: Offenbach, Lacôme. 7.55 Prague: Soloist, Rascher (saxophone). 8.15 Swiss stations: For Swiss abroad (Christmas programme, 8.30). 9.0 Stockholm: Light music. 9.30 Cologne, etc.: Light and dance music. 9.45 Hilversum 2: Orch., songs. 10.0 Deutschlandsender: von Geczy. 10.20 Budapest 1: Cigány Band.	1.30 Kalundborg: Radio Orch. 3.0 Deutschlandsender: Potpourris, etc. 5.0 Paris (PTT): Deprince Orch. 5.10 Radio-Paris: Ellis Orchestra. 6.10 Frankfurt: Variety concert. 6.10 Leipzig: Orchestra, bass. 6.30 Stockholm: Radio Orch., soprano. 7.0 Athlone: Scots-Irish music. 7.0 Budapest 1: "Katzenmusik" (operetta). 7.0 Deutschlandsender: von Geczy. 7.0 Monte Ceneri: Radio Orch. 7.0 Warsaw: Pop. orchestral. 8.0 Brussels 2: Orch., vocal. 8.0 Oslo: Scandinavian songs. 8.15 Warsaw: Lwów Orchestra. 8.40 Beromünster: Restaurant orch. 9.0 Stockholm: Light music. 9.15 Oslo: Radio Orchestra. 9.30 Hamburg, etc.: Light and dance music. 10.25 Budapest 1: Cigány Band.
Talks (including News in English) Commentaries	1.10 Hilversum 2: Christmas talk from Batavia. 7.40 Rome 2: News in English. 8.0 Vienna: Greetings to Austrians in Switzerland.	6.15 Sottens: "Micro-Magazine." 7.0 Leipzig: Topical Revue. 7.0 Lille: English talk. 7.40 Rome 2: News in English.	6.25 Beromünster: League of Nations Report. 7.40 Rome 2: News in English. 8.25 Beromünster: "New English Books." 10.0 Prague: News in English.
Variety Cabaret	8.30 Eiffel Tower: Variety. 9.5 Poste Parisien: Amateurs' Hour. 9.55 Hilversum 2: "A Christmas Show."	6.10 Breslau: Variety—"Blue Monday." 8.0 Brussels 1: Surprise prog. 8.0 Regional: Cinema Stage Show. 9.0 Poste Parisien: Max Regnier.	6.25 Brno, Prague: Revue. 8.0 Brussels 1: Musical Variety. 8.0 National: Variety. 8.10 Hilversum (2): "Tuesday Night Special."
Dance Music	9.10 Budapest 1; 9.15, Oslo; 9.20, Sottens; 9.30, Deutschlandsender; 9.35, Prague; 10.0, Kalundborg; 10.5, Vienna; 10.10, Brussels 2; 10.15, Rome, Turin groups; 10.55, Hilversum 2; 11.0, Paris (PTT), Radio-Paris.	9.25 Budapest 1; 9.30, Leipzig; 9.45, Vienna; 10.15, Rome group; 10.20, Kalundborg; 10.25, Regional; 10.30, Brussels 1; 11.15, National.	10.15 Turin group; 10.25, Regional; 10.50, Hilversum 2; 11.15, National.

Like To Hear ?

WEDNESDAY, Dec. 22	THURSDAY, Dec. 23	FRIDAY, Dec. 24	SATURDAY, Dec. 25
6.10 Breslau: German opera prog. 6.10 Hamburg: "Das Christelflein." 6.30 Budapest 1: From the Opera. 7.0 Prague: Novák programme. 7.40 Hilversum 1: Christmas Oratorio (Bach). 8.0 Brussels 2: "Black Violets." 8.0 Turin group: Tansini, Feuermann. 8.15 Stuttgart: "Winter" (from Haydn's "The Seasons"). 8.30 Strasbourg: Manuel Rosenthal.	5.15 Vienna: "Arabella" (Strauss). 7.15 Cologne: "Das Christelflein" (Pfitzner). 8.0 Turin group (Deutschlandsender, 9.45): "Arlecchino" (Lualdi), "L'Amico Fritz." 8.30 Brussels 1: Modern music. 8.30 Radio-Paris: Christmas Oratorio (Bach). 10.20 National: Clarence Raybould. 11.0 Frankfurt, Stuttgart: Mass in F minor (Buckner).	6.0 Munich: Opera music, etc. 7.0 Monte Ceneri: "The Nativity" (Respighi). 7.15 Beromünster: "The Christmas Star" (Huber). 8.30 Paris (PTT): Hahn, Pierné. 9.50 Cologne: Records.	4.45 Paris (PTT), Strasbourg: Lamoureux; Wagner. 6.0 Leipzig, Cologne: "Tannhäuser." 6.0 Stuttgart: "The Magic Flute." 6.30 Prague (Regional, Act 3): "The Bartered Bride." 7.0 Königsberg: "Hänsel und Gretel." 8.0 Brussels 1: "L'enfance du Christ" (Berlioz). 8.30 Radio-Paris: Opéra-Comique.
2.45, 4.0 Radio-Paris: Pfte., song. 5.0 Deutschlandsender: Emmi Leisner—Carols. 5.15 Strasbourg: Haydn quartet. 6.30 Paris (PTT): Carols. 7.30 Bucharest: Pfte., cello. 8.0 Warsaw: Chopin. 8.10 Beromünster: Christmas songs. 8.25 Kalundborg: Old music. 8.30 Radio-Paris: Cello, pfte. 9.20 National: Peter Dawson. 9.35 Prague: Brahms Songs. 11.0 Stuttgart, Frankfurt: Choir.	2.45, 4.0 Radio-Paris: Song, violin. 4.15 Warsaw: Sztompka (pfte.). 5.0 Königsberg: Christmas cantata. 6.30 Paris (PTT): Organ. 6.30 Stockholm: Beethoven violin concerto. 6.45 Hilversum 2: Cornelius songs. 6.55 Beromünster: Pianoforte. 7.0 Monte Ceneri: Harpsichord. 8.0 Eiffel Tower: Song, pfte. 8.55 Budapest 1: Béla Bartok (pfte.). 9.0 Warsaw: Beethoven, Schumann. 9.45 Strasbourg: Christmas music.	5.0 Radio-Paris: Quartet, pfte. 5.30 Leipzig: Carols by the Thomanerchor. 6.0 Bucharest: Carols. 6.55 Beromünster: Carols. 7.45 Stockholm: Christmas music. 8.0 Leipzig, etc.: German Cathedral chimes. 8.0 Oslo: Cathedral chimes. 8.30 Kalundborg: Christmas chimes. 9.25 Hilversum 1: Carols. 10.0 Warsaw: Slav carols. 11.15 Athlone: Carols.	4.0 Radio-Paris: "Scrooge's Christmas." 5.0 Brussels 1: Pfte., violin. 5.0 Kalundborg: Old organ music. 6.15 Bucharest: Romanian songs. 7.55 Athlone: Carols. 8.0 Brussels 2: Christmas music. 8.0 Eiffel Tower: Song, pfte. 8.20 Sottens: "La Colombière" choir. 8.30 Warsaw: Carols. 9.15 Oslo: Boys' choir.
7.0 Athlone: Christmas fantasy. 7.0 Cologne: Christmas with the Troops. 8.0 Rome group: "Arriva una nave." 8.30 Eiffel Tower: "Georges Dandin," "Le médecin malgré lui."	5.0 Radio-Paris: "La sœur." 7.45 Leipzig: Christmas ballad. 8.0 Brussels 2: "The millionth listener." 8.15 Frankfurt: "Stille Nacht." 8.30 Paris (PTT): "Siegfried." 8.40 Hilversum 2: "Little Dorrit."	8.0 Italian stations: "The Wake." 8.30 Radio-Paris: Rostand plays. 8.30 Strasbourg: "Scrooge's Christmas" (in German). 10.10 Munich: "Holy Night." 11.0 Radio-Paris: "Christmas Eve."	10.15 (a.m.) Frankfurt, Stuttgart: "Cosima Wagner." 7.5 Budapest 1: "Christmas Carol" (Dickens). 8.30 Eiffel Tower: "Conte de Noël." 9.10 Paris (PTT): Christmas plays.
12.0 Radio-Paris: Garde Républicaine Band. 2.0 Kalundborg: Julian Orch. 3.0 Deutschlandsender: Trautonium. 5.0 Berlin: Lutter Band. 5.0 Radio-Paris: Giardino Orch. 6.10 Deutschlandsender: Waltzes and marches. 6.10 Frankfurt, etc.: Opera music. 7.10 Kalundborg: Operetta music. 7.25 Oslo: Radio Orchestra. 7.45 Stockholm: Choral concert. 8.0 Brussels 1: Orch., songs. 8.0 Königsberg: Light orchestral. 8.0 Leipzig: Military Band. 8.25 Breslau: Light music, dances. 8.30 Paris (PTT): From French operettas. 9.0 Warsaw: Pop. orchestral. 9.15 Oslo: Operetta music. 9.20 (app.) Rome group: Orchestra. 9.25 Kalundborg: Preil's Ensemble. 9.35 Königsberg: Wind Band. 10.0 Deutschlandsender: von Geczy.	12.20 Radio-Paris: Bailly Orchestra. 2.15 Kalundborg: Preil's Ensemble. 3.0 Deutschlandsender: Light music. 4.45 Paris (PTT): De Clercq Orch. 6.15 Brussels 1: Alexys Orch. 6.15 Prague: Military Band. 7.0 Kalundborg: Pop. orchestral. 7.0 Oslo: Bergen Radio Orchestra. 7.0 Sottens: Jaques-Dalcroze prog. 7.0 Warsaw: "Waltzes of Vienna." 7.15 Bucharest: "Christmas Eve." 7.20 Athlone: Christmas music. 7.30 Naples group: "The Dollar Princess." 7.50 Hilversum 2: Orchestra, Ria Ginster. 7.55 Brno, Prague: Orch., soprano. 8.10 Kalundborg: Haydn, Brahms. 8.15 Stockholm: Light music, dances. 8.30 Eiffel Tower: "Le petit choc." 8.30 Strasbourg: Operetta excerpts. 9.0 Rome group: Band concert. 9.30 Sottens: Edouard Moudon. 9.30 Stuttgart, etc.: Folk Music.	12.0 Radio-Paris: Bouillon Orch. 1.30 Kalundborg: Radio Orch. 5.0 Berlin: "O Tannenbaum." 5.0 Paris (PTT): Ellis Orchestra. 5.50 Warsaw: Christmas music. 6.15 Oslo: Light Norwegian prog. 6.30 Kalundborg, Stockholm: Danish-Swedish Christmas prog. 7.0 Berlin: Christmas prog. 7.0 Budapest 1: Christmas music. 7.0 Vienna: Christmas prog. 7.15 8.15 Athlone: Orch., songs. 7.15 Prague: Studio Christmas Party. 7.20 Königsberg: Christmas music. 8.0 Brussels 1: Orch., songs, pfte. 8.15 Warsaw: Light orchestral. 9.0 Hamburg, etc.: "Christmas with the Armed Forces." 10.0 Deutschlandsender, etc.: von Geczy—Christmas music. 11.0 Stuttgart, Frankfurt: Christmas music.	12.20 Radio-Paris: Cantrelle Orch. 2.20 Kalundborg: RydahlEnsembles. 3.0 Deutschlandsender: Band. 5.0 Radio-Paris: Marley Orch. 6.15 Berlin: Hungarian, Italian, military bands. 7.0 Deutschlandsender: Popular Melodies. 7.0 Frankfurt: Christmas music. 7.0 Hamburg: Opera music. 7.0 Warsaw: Light orchestral. 7.15 Munich: Popular old tunes. 7.20 Vienna: Variety concert. 7.45 Oslo: Orchestra, pfte. 8.30 Paris (PTT): Light orch. 8.30 Strasbourg: Christmas concert. 8.50 Stockholm: Military Band. 9.0 Budapest 1: Popular orchestral. 9.25 Poste Parisien: Lewis Orch. 9.30 Berlin: Light music, dances. 9.30 Breslau: Old and new dances. 9.30 Kalundborg: Radio Orch. 9.50 Eiffel Tower: Light orch. 10.10 Budapest 1: Cigány Band.
6.15 Sottens: "Micro-Magazine." 6.30 Radio-Paris: "French opera." 7.0 Lille: English talk. 7.40 Rome 2: News in English. 10.10 Poste Parisien: "The Louvre."	6.20 Beromünster: "Cosima Wagner." 7.20 Hilversum 2: "In England." 7.40 Rome 2: News in English. 8.0 Regional: "Meetings with the Kaiser" (Dame Ethel Smyth).	7.0 German stations: Christmas address. 8.0 Prague: Christmas Message by the President, Dr. Beneš. 11.0 Athlone: Mr. de Valera.	3.0 British stations: H.M. the King. 7.0 Athlone: Mr. De Valera. 7.0 Lille: English talk.
6.30 Stockholm: Cabaret. 8.20 Athlone: Dublin-Belfast variety. 9.0 Radio-Paris: "Les médecins humoristiques."	7.45 Sottens: Soirée de chansons. 8.0 Brussels 1: Cabaret. 8.15 Poste Parisien: "Plaisirs de Paris." 9.0 Regional: Variety.	8.0 National: Kerbside Kabaret. 8.0 Paris (PTT): Christmas fantasy. 9.0 Poste Parisien: Variety. 11.0 Brussels 1: "Looking back."	7.0 National: Studio Christmas Party. 9.10 Eiffel Tower: "France in song."
8.0 Cologne; 9.0, Stockholm; 9.30, Leipzig, Sottens; 10.0, Munich; 10.10, Budapest 1; 10.15, Rome group; 10.25, Regional; 11.0, National.	7.0 Berlin; 9.45, Vienna; 10.15, Rome group; 10.25, Regional; 10.30, Poste Parisien; 10.50, Hilversum 2; 11.15, National	10.10 Brussels 2; 10.25, Regional; 10.45, Paris (PTT); 11.15, National; 1.0 a.m. (Sat.), Radio-Paris.	7.15 Bucharest; 9.15, Hamburg, Munich; 9.25, Frankfurt; 9.30, Prague; 10.0, Regional; 10.5, Poste Parisien; 10.15, Rome group; 10.30, National; 10.45, Paris (PTT); 11.0, Strasbourg; 11.15, Brussels 2; 11.45, Radio-Paris.

Long and Medium Wave Programmes

SUNDAY DECEMBER 19

NATIONAL

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

9.30-10.5 a.m. (D)—Service (R.C.).
 10.30-10.45 (D)—Weather Forecast.
 12.30 p.m. (D)—Band: Gladys Palmer (Contralto).
 1.30 (D)—London Male Voice Choir.
 2.0 (D)—Gardening talk by C. H. Middleton and Montagu Allwood.
 2.20 (D)—Records.
 3.0 (D)—"To the Children."
 4.0—Talk on Christianity and Art.
 4.20—Falkman's Apache Band.
 5.0—"The Apostle Play," by Max Mell.
 5.30—Kate Winter (Soprano); Cyril Scott (Pfte.).
 6.15—The Cinema: F. Andrew Rice.
 6.30—Victorian Melodies.
 7.30—"The Umbrella," short story.
 7.55—Service (C. of E.).
 8.45—Appeal. 8.50—News.
 9.5—Fred Hartley's Sextet.
 9.35—"Mr. Pratt's Waterloo," a comedy by Val Gielgud and Philip Wade.
 10.30—Epilogue.

REGIONAL

Time Signals: Big Ben, 12.30, 10.45 p.m. Greenwich, 4.0, 9.0 p.m.

12.30 p.m. (ex. Midland, Western)—National.
 2.0 (Scottish)—Missionary talk.
 2.20 (Scottish)—National.
 4.0 (ex. Northern, Western)—English Country Songs.
 4.0 (Northern)—Community Carol Singing.
 4.0 (Western)—Winifred Davey (Pfte.).
 4.20—"Music of the Week:" Sir Adrian Boult, Director of Music.
 4.30 (ex. Welsh)—For the Children.
 4.30 (Welsh)—Welsh Missionary talk.
 4.50 (Welsh)—Carols and Ballads.
 5.0 (ex. Welsh)—BBC Military Band: David Buchan (Pfte.).
 5.20 (Welsh)—New Continental Novelty Trio: Jack Lewis (Tenor).
 5.45 (ex. Welsh, N. Ireland, Scottish)—Round Broadcasting House: F. Buckley Hargreaves.
 5.45 (N. Ireland)—"Belfast Characters of the Past:" William Moore.
 5.45 (Scottish)—Betting and Gambling: Lord Wark.
 6.0 (Regional, Welsh, Scottish)—Willie Walker Octet.
 6.0 (Midland, Western)—Melbourne Male Voice Choir.
 6.0 (Northern, N. Ireland)—Quintet.
 6.30 (ex. Western, N. Ireland)—Margaret Godley (Soprano); Bradbridge White (Tenor); Stanley Riley (Bass); BBC Chorus and Orchestra (Section B) conducted by Ernest Ansermet.
 6.30 (Western)—Bristol Trio.
 6.45 (N. Ireland)—Service (Presbyterian).
 7.10 (Western)—Delius Recital.
 7.55—Services. 8.45—Appeals.
 8.50—The News.
 9.5 (ex. Welsh)—Hymns and Carols.
 9.5 (Welsh)—"St. Germanus."
 9.35 (ex. Midland, Welsh, N. Ireland)—Orchestra Raymonde.
 9.35 (Midland)—Orchestra: Eveline Stevenson (Soprano); Muriel Sotham (Contralto).
 9.35 (N. Ireland)—Orchestra.
 10.5 (Welsh)—Reginald Paul (Pfte.).
 10.30—Epilogue.

Hours of Transmission in Greenwich Mean Time.

ATHLONE (Ireland)

565 kc/s (531 m.); 100 kW. Relayed by Dublin, 1,348 kc/s (222.6 m.); and Cork, 1,235 kc/s (242.9 m.).

1.30-3.0 p.m.—Records.
 5.30—Christmas Concert by the Artane Band and Vocal Quartet.
 6.15—A.E.'s "Deirdre," presented by Elizabeth Young.
 7.15—Debussy Music by Lilian Conolly (Pfte.).
 7.30—Catholicism and the Arts and Sciences, No. 7. Science and Catholicism by Prof. Thomas Dillon.
 7.50—Sports Review.
 8.0-9.20—Public Symphony Concert from the Gaiety Theatre, Dublin. Conductor: Constant Lambert. Vera Canning (Cello) and Cecily Kenny (Mezzo-Soprano). Overture, "Froissart" (Elgar). Aria, "The Huguenots" (Meyerbeer). Lovely Spring (Coenan). Walk to the Paradise Garden (Delius). Cello Concerto (Dvořák).
 9.30—Variety.
 10.30—Five Minute Appeal.
 10.35—News.
 10.45—Gaelic Sports Talk by Sean O'Ceallachain.
 11.0—National Anthem.

BERLIN (Germany)

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

5.0 a.m.—Call; Weather.
 5.10—Gym.
 5.30—Concert from Hamburg.
 7.0—Gym.
 7.20—Records.
 7.55—Chimes and Service from Potsdam Garrison Church.
 8.30—For Hitler Youth.
 9.0—Weather.
 9.5—Fourth Symphony (Schubert). Conductor: Reinhold Merten (Recorded).
 9.30—Light Music. Raue Band and Pogorelow (Balalaika).
 11.0—Noack Band; Military Band. Conductor: Ahlers; the Berlin Pfte. Trio. Overture, "Das Modell" (Suppé). Flüchtige Sekunden (Illert). Der Kilometerfresser (Fischer). Selection, "Where the Lark sings" (Lehár). Artistique (Gebhart). O lass uns träumen (Robrecht). Ideale (Tosti). Traumelodien (Richardt). Polichinelle (Rachmaninoff). Serenade (Künneke). Gruss aus Berlin (Tielegant). Ballet, "Austin" (Marschner). Slav Dance (Dvořák). Die Welle (Metra). Regimental March. Fest im Elysium (Noack). Selection, "Der Feldprediger" (Millöcker). Die launische Polka (Joost). Hinter dem Schellenbaum (Hempel).
 1.0 p.m.—Greetings.
 1.5—Concert on Records.
 2.0—Echoes from the Kurmark.
 2.30—Records for Children.
 3.0—See Stuttgart.
 5.0—Light Music by the Fröhlich Band with Fröhlich (Violin).
 6.0—News; Sports.
 6.25—Talk on the following Programme.
 6.30—"The Magic Flute" (Mozart). Station Choir, Waldo Favre Choir and Station Orchestra. Conductor: Heinrich Steiner. Cast: Alsen,

SERVICES AND SACRED MUSIC

Sunday

9.0 (a.m.) Kalundborg: Services.
 10.0 Italian stations: Mass.
 10.25 Leipzig, etc.: Bach Cantata.
 12.0 (noon) Radio-Paris: Address.
 5.0 (p.m.) Stockholm: Service.

Christmas Eve

7.15 Sottens: "L'Enfance du Christ."
 8.0 Brussels 2: "L'Annonce faite à Marie" (Milhaud music).
 10.30 Vienna: Chimes, Mass.
 10.45 Warsaw: Midnight Masses.
 10.50 Beromünster: Midnight Mass.
 10.55 Italian stations: Midnight Mass.
 11.0 Budapest 1, Prague, Sottens: Midnight Masses.
 11.0 Radio-Normandie: From Rouen Cathedral.
 11.50 Strasbourg, Radio - Paris: Chimes, Midnight Mass.
 12.0 Athlone, Brussels 1: Midnight Masses.

Christmas Day

5.0 Stockholm: Evensong.
 6.0 Most European Stations: Perosi Sacred Music (from the Vatican).
 6.30 Radio-Paris: "The Manger" (Oratorio).

Ludwig, Hezel, Fábry, Erna Berger, Tiana Lemnitz, Hildegard Erdmann, Auguste Allfeld, Gertrud Walker, Willy Domgraf-Fassbaender, Tresi Rudolph, Hans Florian, Rudolf Ewert, Heinz Hofmann, Bruno Penkert, and Otto von Rohr.

9.0—News; Sports.

9.30-11.55—See Deutschlandsender.

BEROMÜNSTER (Switzerland)

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

9.0 a.m.—Roman Catholic Service.
 9.45—Talk: The Pfte. Trio, with Illustrations of Nineteenth Century Music.
 10.25—Simon Gfeller reads.
 10.55—Hymnen an den Frohsinn (Jos. Haas) for Choir and Instruments.
 11.15—Talk: The Kreutzer Sonata.
 11.30—Weather; News.
 11.40—Zürich Radio Orchestra. Conductor: Reinschagen.
 12.30 p.m.—Folk Songs by a Mixed Choir.
 12.45—Talk: Christmas Presents.
 1.15—Records: Advent and Christmas Music.
 1.40-2.0—Dialect Christmas Story.
 4.0—Talk: Chess.
 4.30—For Young People.
 5.0—"Flamme"—Fairy Play (Bratschi), Music by Furrer.
 6.0—German and French Christmas Music.
 6.20—Talk: Race and Nation.
 6.40—Announcements; News.
 6.55-10.0—Programme from Berne.
 6.55—Sports.
 7.0—Solothurn Chamber Orchestra. Conductor: Schild. Richard Sturzenegger (Cello) and Werner Bloch (Viola d'amore).
 8.0—Six Christmas Songs (Haas) by Erika Hossmann (Soprano).
 8.15—Reading.
 8.30—"Ivan the Terrible"—One-Act Opera (Rimsky-Korsakov). Berne Municipal Orchestra. Conductor: Lertz.
 9.45—Sports; News.

BORDEAUX-LAFAYETTE

(France)

1,077 kc/s (278.6 m.); 35 kW. Transmits at intervals from 7.0 a.m. 6.40 p.m.—The Cathedrals of France—Report from Bayonne Cathedral by Mme Gil Reicher.
 7.40—Records.
 7.59—Time; News.
 8.15—Topical; Announcements.
 8.30—See Paris (Eiffel-Tower).
 10.30—News.

BRATISLAVA (Czechoslovakia)

1,004 kc/s (298.8 m.); 13.5 kW. Transmits at intervals from 5.45 a.m. 2.30 p.m.—Military Band; Sketch.
 4.0—Slovak Folk Songs by Flögl and the Tököly Cigány Band.
 4.25—Play (Schell).
 5.0—Hungarian Transmission: Violin Concerto (Dohnányi) by Ibl and the Station Orchestra. Conductor: Dyk.
 5.45—Sports Notes.
 5.50-10.30—See Prague; at 9.20—News (Hungarian).

BRESLAU (Germany)

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

5.0 a.m.—See Hamburg.
 7.0—Greetings.
 7.10—Records: Folk-Music.
 7.50—Time; News; Greetings.
 8.0—Winter Solstice Programme from Hoyerswerda (Recorded).
 8.30—Brahms Songs—Women's Choir, Conductor: Plüddemann. Maria Kinder (Harp), Hornemann and Linke (Horns).
 9.10—Light Music—Häufel Band and the Morosoff Balalaika Trio.
 10.0—Christmas Readings (Vesper, Storm).
 10.25-11.0—See Leipzig.
 11.0—See Berlin.
 1.0 p.m.—News.
 1.10—"Once upon a Time."
 1.30—"Morgen kommt der Weihnachtsmann"—Literary and Musical Programme (Sattler). Station Orchestra. Conductor: Topitz. Gerda Specht (Contralto), Bertermann (Baritone), Bollon (Pfte.), Hattwig (Harpischord), Spelsberg, Hauck and Brigitte Reiche (Speakers).
 2.30—"Das Jahr überm Pflug"—Cantata (Spitta), by the Station Hitler Youth Ensemble.
 3.0 (from Gleiwitz). Orchestra. Conductor: Humpert. Rommel (Zither). Overture, "Hamlet" (Tchaikovsky). Pittoreske (Börschel). Zither: Legend (Swoboda). Suite, Szenen aus dem Mittelalter (Lautenschlager). Horch die alten Eichen rauschen (Gelbke-Rhode). Zither Serenade in G (Hanstein). German Fairy-tale Suite (Dressel). Overture, "Ascanio in Alba" (Mozart). Peer Gynt Suite (Grieg). Serenade for Strings (Sczuka). Zither: Albumblatt (Reigersberg). Intermezzo, "Naïla" (Delibes). Song without Words (Tchaikovsky).
 5.0—Georg Langer reads.
 5.30—"And loudly roars the Fjord"—Sequence (Volberg) with Old Scandinavian Folk-Songs, sung by Fritz Huber.
 6.0—News.
 6.10—"Lovely Gifts"—Christmas Programme. Station Orchestra. Conductor: Weisshaupt. Station Dramatic Company, Werner Illing, Ernst Petermann, Hans Sattler and Joseph Wittkowski.
 8.0—"Auf 'Treu und Glauben"—Sequence about the German Tradesman (Maercker).

SUNDAY (December 19)

9.0—News; Sports Notes.
9.30-11.0—See Deutschlandsender.

BRNO (Czechoslovakia)
922 kc/s (325.4 m.); 32 kW.
6.30-8.0 a.m.—See Prague.
8.0—Missa Choralis in A minor (Liszt, arr. Janáček). Station Orchestra. Conductor: Bakala. Provoznic (Organ).
8.25-9.0—See Prague.
9.0—Anna Skalická (Pfte.).
9.25—Records.
9.35—Talk and Readings: Romanticism in English Literature.
10.5 a.m.-12.50 p.m.—See Prague.
12.50—For Farmers.
1.5-1.30—For Farmers (German).
1.55-4.35—See Prague.
4.35—German Transmission: String Quartet in B flat (Mozart) by the Brno Quartet; Christmas Story (Pettina); Music by Jöschl.
5.50-10.30—See Prague.

BRUSSELS (No. 1) (Belgium)
620 kc/s (483.9 m.); 15 kW.
6.30-9.2 a.m.—Records; Gym; News.
9.2—Request Records.
10.0—Alexys Orchestra. Mme. Stradel (Songs).
10.45—Pfte. Recital.
11.0—Alexys Orchestra.
11.15—Guessing Competition.
11.20—Alexys Orchestra. Mme. Stradel (Songs).
11.35—Variety Records.
11.50—Potpourri (Cody) by the Alexys Orchestra.
12.0 noon—Records.
12.10 p.m.—Cigány Music by the Salon Orchestra, Conductor: Féron; Records.
12.30—Weather; Shipping.
12.35—Tangos by the Salon Orchestra, Conductor: Féron; Records.
1.0—News; Topical.
1.10—Salon Orchestra. Mlle Wubin (Songs). The Dreary Steppe (Grechaninov). Songs (Radoux-Rogier, Goyens). Mai (Hahn). Songs (Fauré). Russian Melody.
1.35—Art Notes.
1.40—For Farmers.
2.0-2.15—Records: Four Slav Dances (Dvořák).
2.30—Song Record.
2.35—Reading.
2.45—Records: Duets.
3.0—Christmas Oratorio (Bach) from Mons — the Roland de Lassus Society. Conductor: Maurice Weynandt. Germaine Teugels (Soprano), Jeanne Thys (Contralto), Frans Mertens (Tenor), Victor Jaans (Bass), René Tellier (Organ), Leblanc (Flute), Debort (Oboe), Piérard (Trumpet). Commentary by Gaston Brenta.
3.50—Records: Partita in B flat (Bach) by Wanda Landowska (Harpsichord).
4.0 (approx.)—Christmas Oratorio (Bach) (contd.).
5.0—Brenders Dance Band.
5.30—Football Results.
5.35—Brenders Jazz Band.
6.0—For Young People.
7.0—Religious Address by the Rev. Fr. Draime.
7.15—Records: Light Music.
7.30—News; Topical.
8.0—"The Queen of Sheba" (Goldmark) from the Théâtre Royal de la Monnaie, with Introductory Talk and Commentary. Conductor: Mollé. Cast: Caterina Jarboro, Mme Bellin, Mme Stradel, Lens, Mancel, Demoulin, Salès, Delmarche.
8.52—Talk on Act II.
9.15—Act II, "The Queen of Sheba" (Goldmark).
10.8—News; Talk on Act III.

10.26—Act III, "The Queen of Sheba" (Goldmark).
11.20-12.0 m't.—Records. Overture, "Le Roi d'Ys" (Lalo). Selection, "Carmen" (Bizet) by Égon Petri (Pfte.). Waltz Suite, "Gipsy Love" (Lehár). Selection, "Nippy" (Eytton-Mayerl). Viens danser quand même (Delettre) by Lucienne Boyer. Lyric Suite (Grieg). Selection, "The Cat and the Fiddle" (Kern). Die Musik kommt (O. Straus).
BRUSSELS (No. 2) (Belgium)
932 kc/s (321.9 m.); 15 kW.
Programme in Flemish.
6.30-9.5 a.m.—Records; Gym; News.
9.5—Records: "Falstaff" (Verdi) by the Cast of La Scala, Milan. Conductor: Lorenzo Molajoli.
10.15—Vaes (Cinema Organ) from the Roxy Cinema, Antwerp.
11.0—John Gebruers (Carillon), from Antwerp Cathedral.
11.15—Gérard Wouters, (Songs). In the interval, Records.
11.50—Amusement Guide.
12.0 noon—Records. Overture, "Véronique" (Messenger). Overture, "Rip van Winkle" (Planquette). The Blue Danube arranged as Ballet (Strauss-Désormière).
12.30 p.m.—Weather.
12.31—Light Orchestra. Conductor: Walpot; at 1.0-1.10—News.
1.30-2.0—Records.
2.45—Felleman Orchestra; at 3.30-3.45—Henri Franssen (Accordion).
4.30—For Children.
5.15—Gigli Records. Songs (de Curtis): (a) Carmela, (b) Addio bel sogno, (c) Senza Misciuno, (d) Non ti scordar di me, (e) Torna a Surriente.
5.30—Sports Results.
5.40—Records: Quartet in E flat (Boccherini) by the Poltronieri Quartet.
6.0—Excerpts, "Paddestoelen"—Play (Schürmann, arr. Persyn).
6.30—Records. Overture, "Benvenuto Cellini" (Berlioz) by the Colonne Orchestra. Conductor: Gabriel Pierné. Mijn Moederspraak (Benoit) by Frézin (Cello).
6.45—Religious Address by the Rev. Fr. Callewaert.
7.0—Alexandre Tcherepnin plays his own Pfte. Music. Les bateliers de la Volga. Chanson Grand-Russienne. Chanson pour l'aimée. Petite Suite. Etudes: (a) Hommage à la Chine, (b) Luth, (c) Ombres chinoises.
7.30—Film Review.
8.0—Modern English Composers—Concert by the I.N.R. Symphony Orchestra. Conductor: Franz André. Overture (Bush). Jupiter, Mercury, and Mars, "The Planets" (Holst). Suite, "Pomona" (Lambert).
8.45—A Chef at the Microphone.
9.0—Concert (contd.). Façades (Walton). London Symphony (Vaughan Williams).
10.0—News; Topical.
10.10—Brenders Dance Band.
11.0-12.0 m't.—Records. Don Quixote (R. Strauss) by Enrico Mainardi (Cello), Karl Reits (Viola), Kniestadt (Violin) and the Berlin Opera Orchestra, Conductor: The Composer. Excerpts, "The Loves for the Three Oranges" (Prokofiev), by the Poulet Orchestra.
BUCHAREST (Romania)
823 kc/s (364.5 m.); 12 kW.
Relayed by Radio-Romania, 160 kc/s (1,875 m.).
5.30-6.30 a.m.—To be announced.
7.55—Chimes; Service; Address.
9.15—Piatigorsky (Cello) and the Radio Orchestra from the Atheneum.
11.0—News; Sports; Water Level.
11.10—Predesco Orchestra.
12.10 p.m.—Time; News.

12.25—Predesco Orchestra.
12.45—Manu (Monologues).
1.0—For Peasants.
4.0—Christmas Carols from Timisoara.
5.0—Time; Weather; Talk.
5.15—Dance Records.
5.50—"Michael the Brave" College Choir.
6.20—For Farmers.
6.35—From the Opera. In the intervals, News; Sports.

BUDAPEST (No. 1) (Hungary)
546 kc/s (549.5 m.); 120 kW.
8.30 a.m.—News.
9.0—Protestant Service.
10.0—Mass.
11.30—Opera Orchestra. Conductor: Rajter. Overture, "Tsar and Carpenter" (Lortzing). Suite, The Gipsy of Nagyida (Rékai). Scherzo in A (Goldmark). Spanish Dances (Moszkowski). Advent (Sieraczky). Serenade in F minor (Weiner). In the interval—Talk.
1.0 p.m.—Records.
2.0—For Farmers.
2.45—University Students' Jazz Band.
3.15—Sándor Jeszenszky.
3.45—Bodrics Cigány Band.
4.30—Zoltán Nagy.
5.0—Station Band. Conductor: István Bertha. Overture, "Die geschiedene Frau" (Fall). Valse amoroso (Stephanides). Träumerei (Schumann). Dream (Garami). Waltz, Alice (Siklós). Lehár Fantasia (Hruby). Lullaby (Polgár). Waltz (Ivanovici). Gallop (Szirmai).
6.0—Endre Nagy.
6.20—Gabriella Rella (Soprano).
6.50—Variety Programme.
7.30—Budapest Concert Orchestra. Conductor: Fridl. János Meiszner (Flute). Hungarian Overture (Eördög). Suite, Roma (Bizet). Flute Concerto in G (Mozart). Ballet, "Anthony and Cleopatra" (Youfferoff).
8.45—News.
9.10—Peyton Jazz Band.
10.0—Rác Cigány Band.
11.5—News for Hungarians Abroad.

BUDAPEST (No. 2) (Hungary)
359.5 kc/s (834.5 m.); 18 kW.
10.30 a.m.—Records.
2.0 p.m.—Jazz Band.
3.15—Bodrics Cigány Band.
6.30—Talk Records.
7.30—Talk.
8.0—News.

COLOGNE (Germany)
658 kc/s (455.9 m.); 100 kW.
5.0 a.m.—See Hamburg.
7.0—Weather; Water Level.
7.5—Christmas Letters.
7.15—Advent Music. Ani Bernards (Contralto). Rudi Hauck (Violin). Hans Hilgers (Organ). Egbert Grape (Pfte.).
8.0—Records.
9.0—See Deutschlandsender.
9.30—Records.
10.0—Travel Talk.
10.25-11.0—See Leipzig.
11.0—Fairy-Tale Music—Station Orchestra. Conductor: Schulz-Dornburg. Children's Choir, etc.
12.0 noon—Greetings.
12.5 p.m.—Music from Berlin.
1.0—Male Voice Choir. Conductor: Schell.
2.0—"A Trip round the World"—Programme for Children.
2.30—Talk: Viehmeyers-Hof (Marienfeld).
3.0—Variety Concert. Hagedstedt Orchestra. Schrämmel Ensemble. Kullmann and Schröter Pfte. Duo. Hans Salomon (Songs to the Lute). Kläre Hansen-Grüttefien (Soprano).

Theo Herrmann (Tenor). Hubert Kirsch (Baritone).
5.0—"A Christmas Fair"—Sequence (Schaaf); Music by Haletzki.
5.45—"Trifles"—Records.
6.0—News.
6.5—"Nanga Parbat"—Sequence from Documents and Diaries of the German Himalayan Expedition of 1934 (Lebrecht).
6.35—Sunday Review; Sports.
7.0—See Frankfurt.
9.0—News.
9.30-11.0—See Deutschlandsender.

DEUTSCHLANDSENDER (Germany)
191 kc/s (1,571 m.); 60 kW.
5.0 a.m.—See Hamburg.
7.0—Weather; Records.
7.20—At the Roter Ochs, Sassenfeld.
8.0—Olschewski Band, Leonore Bader, Ingrid Larssen, Udo Vietz and Herbert Jäger.
9.0—Reich Labour Service Prayers (Recorded).
9.30—Records.
9.45—Mile Sagawe (Cinema Organ) from the Stella-Palast, Berlin.
10.15—Weather.
10.30—See Leipzig.
11.0—See Munich.
12.0 noon—Greetings.
12.20 p.m.—Music from Königsberg.
1.0—"Frau Holle"—Fairy Play (Grimm-Hugin).
1.30—Request Records.
2.30—Hungarian and Italian Military Music (Recorded).
3.0—See Cologne.
4.30—Emil Seiler (Viola d'amore). Erich Mönkemeyer (Flute). Annlis Schmid (Cello) and Bernd Scholz (Harpsichord).
5.0—Advent Songs and Christmas Carols of the Nations—Sequence (Reimesch). Station Orchestra and Chamber Choir. Conductor: Görner. Trude Norgard, Hella Weiss, Oskar Jölili and Walter Tappe.
6.0—Motto; News.
6.10—"Chiming Clocks"—Variety Concert.
6.45—Sports.
7.0—Light Music. Kaiser Band. Station Orchestra. Conductor: Dobrindt. In the interval, "Drei Tage Liebe"—Play (Hartung) with Music by Eichhorn.
9.0—News; Announcements.
9.30-11.55—Dance Music. Barnabas von Gecky Band. Records of Mile Sagawe (Cinema Organ); at 9.45-10.0—Weather.

FRANKFURT (Germany)
1,195 kc/s (251 m.); 25 kW. Relayed by Cassel, Coblenz, Freiburg and Trier, 1,195 kc/s (251 m.).
5.0 a.m.—See Hamburg.
7.0—Water Level; Weather.
7.15—Gym; For Peasants.
7.45—Fritz Becker (Organ).
8.0—Service.
8.45—Talk: Two Powers.
9.0—For Hitler Youth.
9.30—Concordia Male Voice Choir of Darmstadt. Conductor: Simmermacher.
10.15—German Masters—Sequence about Beethoven, Schubert, Wagner, Goethe and Schiller.
11.0—See Berlin.
1.0 p.m.—See Stuttgart.
1.30—"Der Musikfeind" (Genée). Conductor: Willy Steiner (Recorded).
2.25 (from Freiburg)—Talk: Winter in the Black Forest.
3.0—See Stuttgart.
5.0—Variety Concert with "Help! Burglars!"—Radio Grottesque

SUNDAY (December 19)

(Otto). Station Orchestra. Conductor: Hauck. Gustav Jürgens (Songs to the Lute). Julius Lindner (Drinking and Rhine Songs). The Two Vegas (Banjos).

6.0—Time; News.

6.10—Advent Songs by a Blind Choir, Conductor: Wörner, with Karl Brod (Organ).

6.40—Sports.

7.0—"Tsar and Carpenter" (Lortzing). Station Choir and Orchestra. Conductor: Frickhoeffer. Cast: Hans Wocke, Max Osswald, Hellmuth Schwebes, Maria Madsen, Fritz Lukaseder, Matthias Mraikitsch, Willy Treffner and Toni Schuch.

9.0—Time; News; Sports.

9.30—See Deutschlandsender.

11.0-12.0 m.t.—Serenade (Recorded). Nocturne (Trapp) by the Frankfurt Station Orchestra. Conductor: Hörner. Hymn (Kromoliki) by the Irmel Madrigal Choir, with G. Baumann (Soprano). Violin Concerto (Mozart) by Bruno Masurat and the Berlin Station Orchestra. Conductor: Heinrich Steiner. Suite, "Prometheus" (Beethoven) by the Deutschlandsender Station Orchestra. Conductor: Dobrindt.

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.—Harbour Concert.

7.0—News; Talk.

7.25—Mandoline and Guitar Band. Warmke Band; at 7.35—Gym.

9.0—Programme Notes.

9.15—Service from the University Church, Kiel.

10.0—"The Solling District"—Sequence (Fricke) from Neuhaus.

10.30—See Leipzig.

11.0—See Berlin.

1.0 p.m.—"Allerleirauh!"—Fairy Play (Kröncke).

1.30 (from Stettin)—Programme by Girls.

1.45—Talk by Captain Murawski: The Military Year Book.

2.0—Folk Music. Altona Mandoline Band. Henry Harder (Songs to the Lute). Overture, "King Midas" (Eilenberg). Songs to the Lute. North German Dances (Ritter). Songs to the Lute. German Peasant Waltz (Ritter).

2.40—Talk: The Labour Service in Winter.

3.0—See Stuttgart.

5.0—Christmas Variety Programme (in Dialect). Station Male Voice Quartet, Choir and Orchestra. Conductors: Gregor and Müller-Lampertz. Women's Trio. Gertrud Maxa and Helmut Laue (Songs), Grottier (Accordion), etc.

6.0—News.

6.10—Records.

6.30—Sports; Weather.

7.0—See Stuttgart.

9.0—News.

9.15—Talk: Aviation.

9.30—String Quintet in C (Schubert) by the Strub Quartet and Erich Wilke (Cello).

10.20-11.0—Dance Records.

HILVERSUM (No. 1) (Holland)

160 kc/s (1,875 m.); 10 kW until 2.40 p.m.; 150 kW from 2.40 p.m. Also on Lopikerkapel, 722 kc/s (415.4 m.); 17 kW from 2.40 p.m.

8.10 a.m.—KRO Religious Transmission.

9.10-11.55—NCRV Programme.

9.10—Records: Sacred Music.

9.30—Service; Records: Sacred Music.

11.55 a.m.-4.40 p.m.—KRO Programme.

11.55—KRO Orchestra. Conductor: van 't Woud; at 12.40—Talk.

1.40 p.m.—Doctrine Lesson.

2.10—Records.

2.45—KRO Melodists. Conductor: Lustenhouwer.

3.25—Records.

3.35—Hartvelt (Violin), Boshart (Pfte.).

4.10—For Invalids.

4.35—Sports.

4.40—NCRV Programme: Service; Records: Sacred Music.

7.25 till Close—KRO Programme.

7.25—Sports; Talk; News.

8.5—Records.

8.30—KRO Orchestra. Conductor: van 't Woud; KRO Melodists, Conductor: Lustenhouwer; Hartvelt (Violin), Willy François (Pfte.), Klein (Refrains).

9.10—Request Records.

9.25—Dramatic Programme.

10.10-10.40—News; Epilogue.

HILVERSUM (No. 2) (Holland)

995 kc/s (301.5 m.); 15 kW until 6.10 p.m.; 60 kW from 6.10 p.m.

8.35-9.40 a.m.—VARA Programme.

8.35—Records; Announcements; Talk.

9.10—Records; Talk.

9.40-11.40—VPRO Programme.

9.40—For Children.

10.10—Service.

11.40 a.m.-4.40 p.m.—AVRO Programme.

11.40—Time; Organ.

11.50—Film Talk.

12.15 p.m.—Palla (Organ), Lensky (Violin), Karsemeyer (Tenor).

1.10—Christmas Talk from the Dutch East Indies.

1.30—Records.

1.40—Christmas Books.

2.10—Concertgebouw Orchestra from the Concertgebouw, Amsterdam. Conductor: Mengelberg. Else Rijkens (Soprano), Hindemith (Viola). Symphony in C minor (Haydn). Der Schwanendreher (Hindemith). Fêtes galantes (Piper). Excerpts, "The Damnation of Faust" (Berlioz).

3.40—Records: Christmas Music.

4.10—Dance Music. Conductor: Mossel.

4.35—Sports.

4.40—VPRO Talk.

5.10-7.40—VARA Programme.

5.10—For Children.

5.40—Orchestra. Conductor: de Groot.

6.10—Sports Notes; Records.

6.40—The Lucky Birds, etc.

7.40-11.40—AVRO Programme.

7.40—News.

7.55—"The Barber of Bagdad" (Cornelius). Conductor: van Raalte. Cast: Henk Viskil, Wilhelm Strienz, Harm Smedes, Theo Baylé, Corry Bijster and Titi Fermin.

9.25—News.

9.40—Reading; Palla (Organ).

9.55—Christmas Variety.

10.40—News; Dance Music. Conductor: Mossel.

11.20—Records.

11.40—Anthem.

KALUNDBORG (Denmark)

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

7.0 a.m.—Gym; Weather.

7.45—French Talk: Claude Farrère. 8.0—German Talk with Illustrations by the Karl Quartet: Deutsche Weihnachtslieder.

8.15—Reading in English from "A Christmas Carol" (Charles Dickens).

8.30—Talk.

9.0—Service.

10.28—Weather; News.

11.0—Preil's Ensemble; at 11.50—Reading.

1.0 p.m.—For Young People.

1.30—Records.

2.0-3.5—Radio Orchestra. Conductor: Tuxen. Overture, "Der Freischütz" (Weber). Minuet in D minor (Haydn). Suite in A minor (Nielsen). Ballet, "La boutique fantasque" (Rossini-Respighi). Waltz (Tchaikovsky). Dances of Maroszek (Kodály). Hungarian March (Lehár).

3.15—See Vienna.

3.40—Radio Orchestra (contd.). Overture, "Masaniello" (Auber). Selection, "L'Arlésienne" (Bizet). The Skaters' Waltz (Waldteufel). Marche parisienne (Ganne).

4.0—Service from Christiansborg Castle Church.

5.20—Talk: The Waltz.

5.50—Weather.

6.0—News; Sports.

6.30—Talk: The History of the Alphabet.

7.0—"The Hansens"—Sketch (Locher).

7.15—Fini Henriques Concert. Radio Orchestra. Conductor: Grøndahl. Tenna Kraft (Songs). Legende. Preludes and Arias, "Canta." Excerpts, "Weyland the Smith."

8.15—"The Old Scala Days"—Preil's Ensemble, etc.

9.15—News; Weather.

9.30—Poems.

10.0-11.15—Julian Dance Band.



Madame Lya Beyer sings Viennese operetta and light songs (Vienna, 7.10 p.m.)

KÖNIGSBERG (Heilsberg)

(Germany)

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

5.0 a.m.—See Hamburg.

7.0—Christmas in Town and Country—Play (Ruth Geede).

7.30—Weather; Programme Notes.

8.10—Protestant Service.

9.0—For Hitler Youth.

9.30—"The Melody of the Morning"—Sequence (Bartels).

9.55—Talk: Stamps.

10.25-11.0—See Leipzig.

11.0—Station Orchestra. Conductor: Wilcken. Station Choir. Conductor: Firchow; at 12.0 noon—Weather; Road Report.

1.0 p.m.—Chess.

1.30—Topical.

2.10—Discussion: Photography.

2.30—A Christmas Fairy Play (Irene Herr), Music by Henning.

3.0—Station Orchestra. Conductor: Wilcken. Börschel Band. Overture, Consalvo (Azzoni). Thermen-Walzer (Strauss). Diavoletta (Lindemann). Klänge der Pusztá (Müller). Tango, Ich träume beim ersten Kuss (Richardt). Selection, "Eine Nacht in Venedig" (Strauss). Suite goliardica (Amadei). Waltz, Winzerfreuden (Leuschner). Waltz (Tijardovich). Foxtrot (Eisbrenner). Hör

ihr die Zigeuner (Grothe). Cocktail (Englemann). Ein Traum von Wien (Wilcken). Zigeunerpatrouille (Ranzato). Harlekinade (Blume). Intermezzo, Blumenblätter (Charrosin).

5.0—Christmas Concert by the Königsberg Chamber Music Society. Conductor: Pogner.

6.0—Weather; News.

6.10—Where are you, Comrade?—Programme for Ex-Servicemen.

6.40—Sports.

7.0—Station Orchestra. Conductor: Thierfelder. Franz Schiffmann (Violin). Philipp Schiede (Cello). Richard Wendt (Oboe). Werner Mauruschat (Bassoon). Serenade (Mozart). Symphony (Haydn). Prelude to "Zauberberge" (Egk). Nocturne from the Suite, "King Christian II" (Sibelius). Prelude to "Tiefand" (d'Albert). Introduction to Act III, "Tannhäuser" (Wagner). The Enchanted Lake (Lyadov). Excerpt, "Schéhérazade" (Rimsky-Korsakov).

9.0—Weather; Road Report; News.

9.20—Football Match Report.

9.40-11.0—Dance Music and Light Music by the Börschel Band.

9.0—Weather; Road Report; News.

9.20—Football Match Report.

9.40-11.0—Dance Music and Light Music by the Börschel Band.

9.0—Weather; Road Report; News.

9.20—Football Match Report.

9.40-11.0—Dance Music and Light Music by the Börschel 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.—See Hamburg.

7.0—Buxtehude Music by Hans Strobach (Organ) from St. Luke's Church.

7.30—Classical Records.

8.0—See Munich.

8.30—Sudetic German Song Sequence (arr. Eckert) by the Marienbad Choir. Conductor: Kolb.

9.10—Leipzig Symphony Orchestra. Conductor: Schröder.

10.25—Sixth Anniversary of the Bach Cantata Broadcasts—Address by the Station Director, Herr Carl Stueber.

10.30 (approx.)—"Gloria in excelsis Deo"—Cantata (Bach). St. Thomas' Choir and Gewandhaus Orchestra. Conductor: Straube.

Helene Fahrni (Soprano), Heinz Marten (Tenor), Friedbert Sammler (Harpischord). Günther Ramin (Organ).

11.0—See Berlin.

1.0 p.m.—Time; Weather.

1.5—Records: Christmas Music.

2.0—"Die Sternentaler"—Christmas Play (Zöllner).

2.30 (from Dresden)—Chamber Music. Quintet in A (Schiller). Quintet in C minor (Blume).

3.0—Variety Programme from Pöschneck. Fricke Band. The Five Belcantos: Arthur Preil and Partner. Ruth Meister. Lotte Specht. Harry Langewisch. Carl Leopold.

4.45—"A Dresden Picture Book" (arr. Hokrath). Text of Blochberger, Findeisen, Hippel, Roth, and Thieme; Music of Flath, Julius Otto, Striegler, Wehding and others. Radebeul School Choir. Conductor: Flath. Dresden Soloist Ensemble. Lotte Meyer, Carl Zimmermann and Kasimir Paris (Speakers).

6.0—News.

6.10—"The German Christmas Spirit"—Sequence of Old and New Words and Old Music (Pfeiffer), with Franziska Liebing, etc., and Records.

7.10—Italian Opera Concert. Station Choir and Leipzig Symphony Orchestra. Conductor: Hilmar Weber. Lea Piltti (Coloratura Soprano). Paul Reinecke (Tenor). Philipp Göpelt (Baritone). Heinrich Löffler (Bass). Part I. Bellini. Overture, "Romeo and Juliet." Aria, "I Puritani." Duet, "Norma." Part II. Cherubini. Overture, "The Water Carrier." Ballet, "Anacreon."

SUNDAY (December 19)

Part III. Monologue and Finale, "La Gioconda" (Ponchielli). Part IV. Rossini. Overture, "Otello." Chorus and Dance, "William Tell." Duet, "The Barber of Seville." Part V. Mascagni. Intermezzo, "L'Amico Fritz." Drinking Song, "Cavalleria rusticana." Part VI. Donizetti. Quartet, "Don Pasquale." Overture, "La Favorita." Aria, "L'Elisir d'amore." Excerpt, "The Daughter of the Regiment."
 9.0—News; Sports.
 9.30-11.0—See Deutschlandsender.

LILLE (Radio PTT Nord) (France)
 1,213 kc/s (247.3 m.); 60 kW. Transmits at intervals from 7.0 a.m.
 4.45 p.m.—Band.
 5.30-6.30—See Paris (PTT).
 6.30—Economic and Social Notes.
 7.0—Records.
 7.30—News; Weather.
 8.0—Records and Sports.
 8.30 (also Toulouse (PTT) and Limoges (PTT))—From the Opéra-Comique, Paris. After the Programme, News.

MONTE CENERI (Switzerland)
 1,167 kc/s (257.1 m.); 15 kW. Transmits at intervals from 10.30 a.m.
 11.29 a.m.—Time; News.
 12.30-1.0 p.m.—Boys' Accordion Band.
 1.30—Commentary by Vico Rigassi on the International Curling Match, Switzerland v. Germany, in Basle.
 3.0—Tea-Time Records.
 4.0—Band from Chiasso. In the interval, Talk.
 5.15—Sports; Records.
 5.40—For Invalids.
 6.15—Sports; Records.
 6.45—News.
 7.0—Luigi Valerio (Violin) and Nino Herschel (Pfte.). La folia (Corelli-

Leonardi). Improvisations (Bloch). Variations on a Corelli Theme (Tartini - Kreisler). Zigeunerweisen (Sarasate).
 7.30—Talk: The Italo-Prussian Alliance of 1866.
 7.45—Vittorio Baldo (Bass).
 8.10—Verdi Concert. Radio Orchestra. Conductor: Casella. Overture, "Oberto Conte di S. Bonifacio." Selection, "Ernani." Prelude, "Macbeth." Selection, "Rigoletto." Prelude to Act I, "La Traviata." Overture, "The Force of Destiny." Selection, "Falstaff."
 9.0—A Poem.

MOSCOW (No. 1) (Russia)
 172 kc/s (1,744 m.); 500 kW.
 1.0 p.m.—Swedish Programme.
 5.0—Concert.
 7.0—Dramatic Programme.
 8.15—Concert.
 9.0—English Programme.
 10.0—French Programme.
 11.0-12.0 m't.—Spanish Programme.

MUNICH (Germany)
 740 kc/s (405.4 m.); 100 kW. Relayed by Nürnberg, 1,267 kc/s (236.8 m.).
 5.0 a.m.—See Hamburg.
 7.0—Religious Address.
 7.30—Nadina Ferreri (Pfte.).
 8.0—For Hitler Youth.
 8.30—Records.
 9.0—To be announced.
 10.5—"Beim Kramer"—Play (Kühn).
 10.25-11.0—See Leipzig.
 11.0—Military Band from the Feldherrnhalle.
 11.55—Time; Weather.
 12.0 noon—Classical Records.
 2.0 p.m.—"The Enchanted Wood"—Play (Meingast).
 2.30—Winter—Songs by a Girls' Choir.
 2.45—Talk: Stradivarius.

3.0—See Stuttgart.
 5.0—Christmas Carols.
 5.30—Records.
 6.0—Time; News.
 6.10—Mandoline Band and Zither Band.
 6.40—Sports.
 7.0—"Schwanenweiss" (Weismann). Station Choir and Orchestra. Conductor: Winter. Cast: Georg Hann, Else Schürhoff, Hedwig Schöning-Weismann, Hans Decker, Otto Hillerbrand, Annemarie Bischof, Maria Engelhart, Christiane Büttner-Steinacker, Justus Paris, Esther Mühlbauer and Elisabeth Waldenau.
 9.0—Time; News.
 9.30-11.0—See Deutschlandsender.

NAPLES GROUP (Italy)
 Naples, 1,104 kc/s (271.7 m.); 10 kW. Florence (No. 1), 610 kc/s (491.8 m.); Rome (No. 3), Bari (No. 2) Milan (No. 2), Genoa (No. 2), and Turin (No. 2), 1,357 kc/s (221.1 m.).
 6.0 p.m.—De Angelis Orchestra.
 6.30—Sports; Light Music.
 7.0—Time; News; Talk.
 7.30—"La cacciata"—Tuscan Folk Sketch with Music (Bonelli-Cremensini).
 8.0—Pierangeli (Violin), Vidusso (Pfte.).
 8.30—"Al Gatto Bianco"—Musical Potpourri.
 9.30—Dance Music.
 10.0—News.
 10.15-10.55—Dance Music.

OSLO (Norway)
 260 kc/s (1,153.8 m.); 60 kW. Relayed by Fredrikstad, 722 kc/s (415.4

m.); Hamar, 519 kc/s (578 m.); Notodden, 1,357 kc/s (221.1 m.); Porsgrund, 850 kc/s (352.9 m.); Rjukan, 1,348 kc/s (222.6 m.); and Trøndelag, 629 kc/s (476.9 m.).
 7.30 a.m.—Gym.
 7.55—News.
 8.6—French Lesson.
 8.35—German Lesson.
 9.0—Records. Serenade (Brahms). Violin Sonata in E flat (Beethoven).
 9.25—Service.
 11.0—Choir.
 11.25—Wilhelm Schwarzott (Pfte.). Papillons (Schumann). Excerpt, "Die Fledermaus" (Strauss).
 11.40—News.
 12.0 noon—Bergen Symphony Orchestra. Conductor: Heide. Norwegian Artists' Carnival (Svendsen). Zorohayda (Svendsen). Symphony in F minor (Tchaikovsky).
 3.10 p.m.—Talk: Norwegian Folk Music.
 3.40—Talk: Norwegian Terminology.
 4.0—Weather; Records.
 4.55—Report: The Old Church at Tingvoll.
 5.25—Johansen (Violin), and Levin (Pfte.). Pfte.: (a) Aubade (Foresythe), (b) The Revolt of the Yes-Men (Foresythe). Violin: (a) Fantasy in Blue (Ford), (b) Goin' Places (Venuti). Pfte.: (a) Study in Porcelain (Foresythe), (b) Mead and Wood (Foresythe). Violin: Sweet Sue (Johansen).
 5.45—News.
 6.15—Glaser (Violin) and Brustad (Viola). Duet (Bela-Bartok). Norwegian Suite (Brustad). Nocturne (Szymanowski). Molly on the Shore

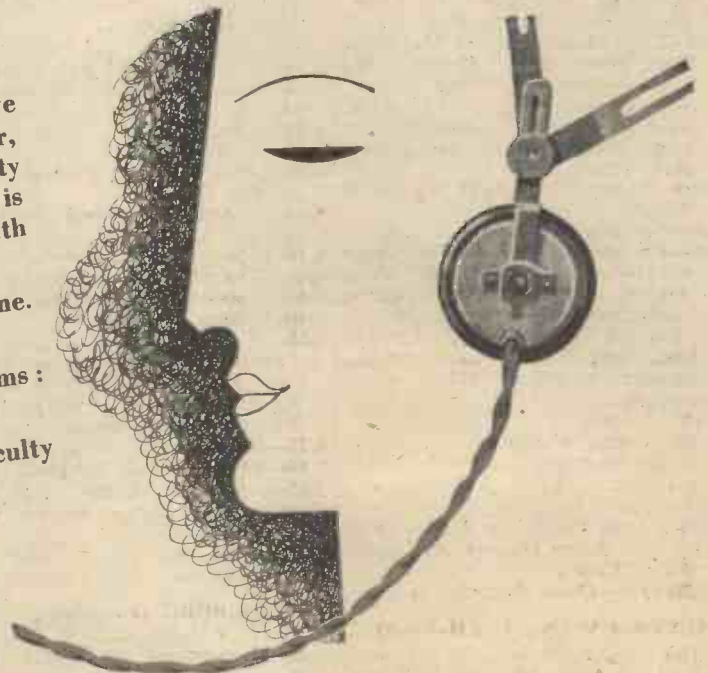
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SUNDAY (December 19)

(Grainger - Kreisler). Caprice (Brustad).
6.55—Talk.
7.20—Station Orchestra. Conductor: Kramm. Soffi Schönning (Soprano). Overture, "The Thieving Magpie" (Rossini). Aria, "Mignon" (Thomas). The Last Rose of Summer, "Martha" (Flotow). Suite (Gjerström). Il Bacio (Arditi). Jewel Song, "Faust" (Gounod). Suite, "L'Arlésienne" (Bizet). Strauss Waltz Potpourri (Weber).
8.40—News.
9.15-10.0—Dance Records.



Exclusive "World-Radio" Picture Mme. Raymonde Allain, who plays the part of Belle Hedley in "Miss Ba" (the French version of "The Barretts of Wimpole Street"), at Paris (PTT) 2 p.m.

PARIS (Eiffel Tower) (France)
1,456 kc/s (206 m.); 7 kW.
Transmits at intervals from 7.0 a.m.
3.15 p.m.—"La Colonie" or "La Ligue des Femmes"—One-Act Play (Marivaux, Music by Roland Jacob), by the Félix Garffe Dramatic Ensemble.
4.45—See Lille.
5.30—Concert.
6.30—For Farmers.
7.0—See Toulouse (PTT).
7.30—News; Weather.
8.0—Mme Dispande Floran (Songs) and Monique Haas (Pfte.). Two Arias from "La naissance du bal" (Mouret). Pfte.: (a) Five Pieces (Staempfli), (b) Fugato (Roussel), (c) Prelude, Arioso and Fugue (Honegger). Four Songs (Poulenc).
8.30—Variety. Part I. Melodies, Songs and Refrains by Adrienne Gallon, Lina Tyber, Louis Lynel, Jean Sorbier and Léon Kartun. Part II. "Le Franc Archer de Bagnolet"—Medieval Legend. "Parade du Pont Neuf" (Tabarin), by the Station Ensemble.
10.30—Records.
11.0-11.15—News; Weather.

PARIS (Poste Parisien) (France)
959 kc/s (312.8 m.); 60 kW.
7.52 a.m.—Records.
8.2—News; Records.
9.1—News; Records.
10.0—Songs; Records.
10.32—Opera Records.
11.0—Session of the S.D.L.—Sequence with Pierre Dac, etc.
11.25—Talk: Chopin and Beethoven Anniversaries.
11.40—Film Music.
11.55—News.
12.5 p.m.—Records for Children.
12.15—Clair de lune—Records.
12.30—The Adventures of Prince Lumen, with Mireille Perrey and Robert Burnier. 12.45—"Le Quatuor de France."
1.0—Vocal Quintet with Raymond Souplex and Jane Sourza.

1.30—Records.
1.45—Lecture-Recital: Ganne.
2.0—News.
5.0—Records.
7.0—Racing; Topical; Sports.
7.17—Amusement Guide.
7.20—Records of Josephine Baker.
7.40—Records of Sidney Torch (Cinema Organ).
7.50—Film Talk.
8.0—News.
8.10—Les Frères Jacasse.
8.15—Records.
8.30—Coco Aslan and his Friends, with Ded Rysel.
8.45—"La bonne histoire."
9.0—News; Amateurs' Programme.
9.55—News.
10.5-11.30—Dance Music.

PARIS (PTT) (France)
695 kc/s (431.7 m.); 120 kW.
7.0 a.m.—News; Record.
7.23—Talk; Records.
7.45-8.30—News; Review; Records.
9.0—For Farmers; Records.
9.30—Songs; Records.
10.0—Derveaux Orchestra.
10.30—Programme Notes.
10.45—Derveaux Orchestra.
11.15—Denise Cayrol (Songs).
11.30—Derveaux Orchestra.
12.0 noon—Locatelli Orchestra. March (Schumann). Le soleil s'est couché (Ackermans). Minuet (Barlow). La danse du feu (Dupont). Chanson du jeune temps (Le Rey). Segovia (Roussel). Rima (Turina). Waltz, La rose noire (Aubry). Ballet, "The Arabian Nights" (Bortkiewicz). En montagne (Mariotte). Marionettes (Lyadov). Valse romantique (Debussy). Allegro (Grieg). Cherry Blossom Festival (Niemann). Valse triste (Sibelius). Selection, "Le petit Duc" (Lecocq). March, *Après de ma blonde* (Casadesus); at 12.45 p.m.—News.
2.0—"Miss Ba" ("The Barretts of Wimpole Street")—Play (Besier, French trans. by Charlotte Neveu). Simone Gautier as Elisabeth Barrett. Aimé Clariond as Robert Browning and Lugne Poe as Edward Barrett.
4.0—Band. Conductor: Combelle. March, "Hamlet" (Thomas). Overture, "Sémiramis" (Rossini). Minuet (Bizet). Selection, "Samson and Delilah" (Saint-Saëns). Judex (Gounod). Infanteria Ligeria (Combelle). In the interval, Songs.
5.0—Song Records.
5.30—"Deux cœurs, deux soupirants"—Radio Fantasy (Variot).
6.0—For Farmers.
6.30—Jean Clément Songs by Robert Marino.
6.45—Suzette Desty.
7.0—Radio-Journal; News.
8.0—Les Frères Jacques present Georges Cheffer.
8.30—"Lord Byron"—Play (Davenny) Music by Tomasi. Maurice Donneaud as Lord Byron.
10.30—News; Sports; Weather.
10.45—Mozart and Gounod Records.
11.0—See Paris (Radio-Paris).

PARIS (Radio-Paris) (France)
182 kc/s (1,648 m.); 80 kW.
6.58 a.m.—Notes; Records.
7.15—News; Gym; Records.
8.0—News; Press Review.
8.30—German Lesson; Book-keeping.
9.15—For Farmers.
9.30—English Lessons.
10.10—Spanish Lesson.
10.30—Italian Lessons.
11.0—Programmes; Records.
11.30—Grunenwald (Organ). Nun komm, der Heiden Heiland (Bach). Noël (Daquin). Pastorale (César

Franck). La mélodie intérieure (Grunenwald). Les Mages (Messiaen). Adoro Te (Lesur). Variations on a Carol (Dupré).
12.0 noon—Roman Catholic Address by the Rev. Fr. Bith.
12.20 p.m.—Records: Sacred Music.
12.30—Pascal Orchestra. March (Krier). Je t'aime (Waldteufel). Vogue mon cœur (Yvain). Hungarian Dance (Gillet). Violin and Cello: La Srenata (Braga). The Student passes by (Ibañez). Venise (Tollet). Spanish Dance, "La vida breve" (Falla).

1.0—Time; News.
1.15—Orchestra (contd.). Zingaresca (Curzon). La lettre d'amour (Charmettes). Pasodoble, Amparito Roca (Textidor).
1.30—Robert Burnier (Songs).
1.45—Orchestra (contd.). Minuet (Godard). Après Pété (Fl. Schmitt). Marche italienne (Rousseau).
2.0—Sound News.
2.10—"Bob et Bobette chez le Père Noël"—Radio Fantasy (Groffe) by René-Paul Groffe and his Company.
3.0—Edouard Duleu (Accordion).
3.15—"La valse des papillons"—Thriller (Cossin) with the Author as Titin.
3.45—La Houppa.
4.0—Two One-Act Plays: (a) "La rentrée" (Sée), (b) "La pêche aux flambeaux" (Passeur).
5.0—Lamoureux Concert from the Salle Gaveau. Conductor: Bigot. Denise Sternberg (Pfte.). Night on the Bare Mountain (Mussorgsky). Antar (Rimsky-Korsakov). Pfte. Concerto (Glazunov). Pfte.: (a) Scherzo (Cui), (b) Baba Yaga (Lyadov), (c) Dances, "Prince Igor" (Borodin).
6.58—Programme Notes.
7.0—Radio-Paris Guignol by Bilboquet and Company: "La fête à Madelon" (Crozière). In the interval, Polichinelle.
7.30—Denise Cayrol (Songs).
7.45—Jean Clément (Songs).
7.59—Time; Home Affairs.
8.8—Foreign Affairs.
8.15—Yvonne Louis (Songs).
8.30—Symphony Concert. Conductor: Clergue. Noyon Choir. Yvonne Lefebvre (Pfte.). Part I. Overture, "King Lear" (Berlioz). Brandenburg Concerto (Bach). Reflets d'Allemagne (Fl. Schmitt). Pfte. Concerto in C (Mozart). Part II. "Fra angelico" (Litaize). Cast: Cathelat, Lovano and Mlle Gaudel; at 9.30—News.
10.35—Sound News.
10.45—Time; News.
11.0 p.m.-1.0 a.m. (Monday)—Bouillon Dance Band.

PRAGUE (Czechoslovakia)
638 kc/s (470.2 m.); 120 kW.
Transmits at intervals from 5.45 a.m.
6.30 a.m.—Karlsbad Municipal Orchestra.
7.15—Gym; Meditation.
8.0—See Brno.
8.25—For Workers.
8.45—"Christmas Tree"—Sketch.
9.0—Czech Folk Songs by the Czech Teachers' Choir.
9.35—See Brno.
10.5—Books.
10.10—Concert from Moravská-Ostrava.
11.0—Chimes.
11.5—Record.
11.10—Press Review; Weather.
11.20—Miners' Band.
12.20 p.m.—For Farmers.
1.5—For German Farmers.
1.55—Talk on the Following Opera.
2.0-4.35—"The Jacobin" (Dvořák), from the State Opera. Conductor: Charvát.
4.35-5.50—German Transmission: Talk; Review of the Week;

Medieval Christmas Play (Bonyovsky).
5.50—News (German).
5.55—Record.
6.0—News.
6.10—"The Millionth Listener."
7.0—Talk on the following Concert.
7.5—Czech Philharmonic from the Smetana Concert Hall. Conductor: Jeremiáš. The Hlahol Vocal Ensemble and Budiková (Soprano), Otava (Baritone). Symphony in C minor (Franck). Cantata, "The Last Things of Man" (Vycpálek). In the interval, Talk.
8.55—Record.
9.0—News.
9.20—Records.
9.30—News (German).
9.35-10.30—Dance Music.

RADIO-NORMANDIE (France)
1,113 kc/s (269.5 m.); 15 kW.
6.45 a.m.—Military Band.
7.0—Records.
7.15—News; Press Review.
7.45—Records and Light Music.
9.30—Popular Music.
10.30—Eddie Pola and his Orchestra.
10.45—Records.
11.0—Light Music; Records.
11.45—Excerpts from a Revue, by Artists of the Théâtre Français, Rouen.
12.25 p.m.—Roman Catholic Address.
12.45—News.
1.0—Records.
2.0—Concert.
2.30—Jane Carr.
2.45—Records.
3.0—Serenade to Beauty.
3.30—Songs.
3.45—Jack Jackson and his Orchestra.
4.0—Light Music.
5.30—Hildegarde.
5.45—Light Music.
6.30—Concert; Records.
7.15—Light Music.
7.30—News; Sports.

8.0—Concert. Je t'aime... c'est tout (Gardoni). Je suis à vous (Aris-Daverdain). Wedding March, "Lohengrin" (Wagner). L'âme des violons (de Buxeuil). Il est une maison (Cazes). Farandole, "L'Arlésienne" (Bizet). Chanson des heures (Privas). Ninon, voici le jour (Bénech). La Charlotte prie Notre-Dame (Carcel-Jehn Rictus). A dame jolie (Favart). J'ai l'cafard (Eblinger). Scènes alsaciennes (Masset). J'aime tes grands yeux (Bixio). J'ai rêvé d'une fleur (Scotto). Aria, "I Pagliacci" (Leoncavallo). Idiotes (Queyriaux).
9.30—Humorous Programme.
10.30—Records and Light Music.
11.15—Light Music; Records.
11.45—Light Music.
12.0 m't.—Midnight Melodies.
12.30-1.0 a.m. (Monday)—Dance Music.

RENNES-BRETAGNE (France)
1,040 kc/s (288.5 m.); 120 kW.
Transmits at intervals from 7.0 a.m.
2.0 p.m.—One-Act Plays by the Compagnie des Comédiens Bretois, from Brest; (a) "Une vilaine femme brune" (Sacha Guitry), (b) "Le Pélerin" (Vildrac), (c) "Un soir, quand on est seul" (Sacha Guitry), (d) "Le plaisir de rompre" (Jules Renard).
4.0-7.0—See Paris (PTT).
7.0—News; Sports; Records.
8.0—See Paris (PTT).
8.30—Breton Songs. Celtic Choir, Conductor: Collin. André du Guerny, M. Blandin, Mme Biet and Mlle Goron. After the Programme, News.

REYKJAVIK (Iceland)
208 kc/s (1,442 m.); 16 kW.
10.45—Opera Music.
11.40—Weather (Icelandic, English, German).

SUNDAY (December 19)

12.0 noon — Service from the Cathedral.
 1.0 p.m.—Music.
 4.0—Light Classical Music.
 7.30—For Children.
 8.10—Weather (Icelandic, German, English).
 8.20—Classical Dances.
 8.55—Notes; News; Talk.
 9.55—Gluntarna (Wenperberg).
 10.15—To be announced.
 10.40 p.m.-1.0 a.m. (Monday)—Dance Music.

ROME GROUP (Italy)

Rome (No. 1) 713 kc/s (420.8 m.); 50 kW. Bari (No. 1), 1,059 kc/s (283.3 m.); Palermo 565 kc/s (531 m.); Bologna, 986 kc/s (304.3 m.).
 7.20-7.50 a.m.—News.
 8.20—For Soldiers.
 9.0—Rural Programme.
 10.0—See Turin (No. 1).
 11.0-11.15—Bible Reading.
 11.20 a.m.-1.15 p.m.—See Turin (No. 1).
 2.30-3.15—Football Match Report.
 3.45—Sports.
 4.0—Concert of Old and Modern Melodies. Conductor: Mancini. In the interval, Weather; Sports. After the Concert, News.
 6.30—Sports.
 6.47 — "A Travel Adventure" — Sketch.
 7.0—News; Talk.
 7.30—Light Music.
 8.0—Aviation Band. Conductor: Di Miniello. Overture, "Mignon" (Thomas). Selection, "Le rondine" (Puccini). Waltz, Colli laziali (Di Miniello). Prelude, "I Rantzau" (Mascagni). Excerpts, "Carmen" (Bizet). March, "The Damnation of

5.0—Dance Records.
 5.55—Protestant Address.
 6.15—Liturgical Melodies—Advent Music by the Gregorian Choir from the Eglise de Sainte-Croix.
 6.45—News; Weather.
 7.0 till Close—From Geneva.
 7.0—Sports.
 7.20—Romand Orchestra. Conductor: Baud-Bovy. Johannès Willy (Bass). Overture in D minor (Fux). Two Airs from "The Seasons" (Haydn). Symphonie concertante (Stamitz). Songs (Schubert, Schumann). Serenade in A (Brahms).
 8.50—"La Quatrième"—One-Act Play (Piéchaud).
 9.20—Dance Records.
 10.0—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.).
 8.0 a.m.—For Farmers.
 8.30—Records. Symphony in C (Mozart), by the Berlin Conservatoire Orchestra. Conductor: Stein. Violin Concerto in D (Tchaikovsky) by Heifetz and the London Philharmonic. Conductor: Barbirolli.
 9.15-9.45—Educational Talk.
 10.0—Service from the Gustavus Vasa Church.
 11.40—Weather; News.
 12.0 noon—Martensson Ensemble.
 1.0 p.m.—Children's Cabaret.
 1.35—Salvation Army Band.
 2.0—Talk: Christmas Fifty Years Ago.
 2.30—Records.
 3.30—English Lesson.
 4.5—Christmas Music by a Göteborg School Choir. Christmas Cantata on a Medieval Christmas Melody (Karl

Kreisler). Songs (Peterson-Berger). Songs (Rangström). Reading in the interval.

STRASBOURG (France)

859 kc/s (349.2 m.); 100 kW.
 6.45-8.30 a.m.—Gym; News (French, German).
 9.0—See Paris (PTT).
 9.15—Records: French Music.
 10.0—Records.
 10.45—Protestant Service.
 11.30—Roman Catholic Service (German).
 12.0 noon—Folk Songs by the "Petits Chanteurs de Lauterbourg."
 12.35 p.m.—News.
 1.0—Request Records.
 1.45—Concert from Lyons (PTT).
 2.30—Sunday Review; Records.
 3.0-3.45—See Paris (Radio-Paris):
 3.45—Medical Talk.
 4.0—Relief Fund Concert from the Salle Pirel, Nancy. Conservatoire Orchestra and Children's Choir. Conductor: Bachelet. Joseph Bonnet (Organ), Moulin (Clarinet), Louis Fleurant, and others. "Les enfants à Bethléem"—Oratorio (Pierné). Organ Concerto (Guilmant). Overture, "Egmont" (Beethoven). Clarinet: Andante (Mozart). Organ Pieces (Bonnet): (a) Matin provençal, (b) Ariel, (c) Catalan Rhapsody. Allcluia, "The Messiah" (Handel).
 6.0—For Farmers.
 6.30—Music from Marseilles (PTT).
 7.0—News; Weather.
 7.30—Strasbourg Choir. Conductor: Ernst Hecklé (Cor anglais). Part I. Christmas Carols. Part II. Cor anglais: Romance sans paroles (Lamotte).
 7.45—News (German, French); Sports.
 8.30—Alsatian Evening—Programme for the Fortieth Anniversary of the Alsatian Theatre. Talk. Prologue (Bastian) by Lucie Schlegel. Address by Gustave Stoskopf. "Pariser Reis 1937"—Farce (arr. Stoskopf).
 10.30—News (French, German).
 11.0—Dance Music.

STUTTGART (Germany)

574 kc/s (522.6 m.); 100 kW.
 5.0 a.m.—See Hamburg.
 7.0—Water Level; Weather; For Peasants; Gym.
 7.30 (from Mannheim) — Roman Catholic Service.
 8.0—Records.
 9.0—For Hitler Youth.
 9.30—Wagner Opera Music—Winter Relief Concert. Heilbronn Theatre Orchestra with the Frohsinn and Lyra Choirs. Conductor: Müller. Kläre Bühler (Soprano). Albert Seibert (Tenor). Pilgrims' Chorus, "Tannhäuser." Excerpts, "Lohengrin."
 9.55—Talk: Postage-Stamps.
 10.25-11.0—See Leipzig.
 11.0—See Berlin; at 12.0 noon—Topical.
 1.0 p.m.—"Kasperle entrümpelt"—Humorous Play (Dora Korenyschek).
 1.30—Request Records.
 2.30—Ludwigsburg Choir. Conductor: Kunzmann (Schubert, Bruckner, etc.).
 3.0—Light Classical Music from Saarbrücken. Conductor: Kasper. Else Wolff (Soprano). Willy Schneider (Bass-Baritone).
 5.0 (from Karlsruhe)—"An Evening in the Black Forest"—Folk Programme.
 6.0—News; Sports.
 6.15—First Symphony (Brahms), by the Philadelphia Symphony Orchestra. Conductor: Stokowski (Recorded).

7.0—"Only Six Days to Christmas!" —Sequence. Station Orchestra. Conductor: Bara; with Young People at the Microphone.
 9.0—Time; News.
 9.30—See Deutschlandsender.
 11.0-12.0 m't.—See Frankfurt.

TOULOUSE (PTT) (France)

776 kc/s (386.6 m.); 120 kW. Transmits at intervals from 7.0 a.m. 7.0 p.m.—Orchestra. Conductor: Tartanac. Selection, "Mignon" (Thomas). Waltz, España (Waldteufel). Selection, "La Périchole" (Offenbach).
 7.30—News; Records.
 8.30—From the Opéra-Comique, Paris. After the Programme, News.

TOULOUSE (Radio-Toulouse) (France)

913 kc/s (328.6 m.); 60 kW. Transmits at intervals from 11.40 a.m.
 12.0 noon—News; Film Songs.
 12.40 p.m.—Talk.
 12.45—"Ignace" (Dumas).
 1.15—Village Band.
 1.45—Operetta Airs, "Au Soleil de Marseille" (Sellers), "Un petit bout de femme" (Mercier), "Trois de la marine" (Scotto), "Malvina" (Hahn), "Florestan 1" (Heymann).
 2.0—News.
 2.5-2.15—Protestant Address.
 4.0—English Concert.
 6.40—Light Orchestral.
 6.55—News; Sports.
 7.15—Songs; Light Music.
 8.0—"Soleil et Galejades"—Fantasy.
 8.30—Light Music.
 9.15—"Manon" excerpt (Massenet).
 9.30—Operetta Music. Excerpts, "The Gipsy Baron" (Strauss), "Les Saltimbanques" (Ganne). "Les Dragons de Villars" (Mailart).
 10.0—News.
 10.15—English Concert.
 11.15—"Elle"—Fantasy. Elle, rien qu'elle (Ferrari). Elle est fière (Scotto). Elle est marseillaise (Scotto). Elle bégaye (Himmel). Elle a... (Scotto).
 11.35—Light Music.
 11.50-12.0 m't.—News.

TURIN GROUP (Italy)

Turin (No. 1) 1,140 kc/s (263.2 m.); 7 kW. Milan (No. 1), 814 kc/s (368.6 m.); Genoa (No. 1) and Trieste 1,140 kc/s (263.2 m.); Bolzano, 536 kc/s (559.7 m.); Florence (No. 2), 1,258 kc/s (238.5 m.); and Rome (No. 2) 1,222 kc/s (245.5 m.).
 7.30-7.50 a.m.—Time; News.
 8.20—See Rome (No. 1).
 10.0—Mass from the Church of the Annunciation, Florence.
 11.0-11.15—Bible Reading.
 11.20—Sports.
 11.30—Request Music.
 12.0 noon—Time; News.
 12.15 p.m.—Variety.
 12.45-1.15—Records.
 6.30-7.30—See Rome (No. 1).
 4.0—Symphony Concert from the Teatro Adriano, Rome. Conductor: Molinari. Feuermann (Cello). In the interval, News. Symphony in A (Mozart). 'Cello Concerto (Schumann). Preludio magico (Frazzi). Dhikir (Montani). 'Cello Concerto (Weber). After the Concert, Sports.
 6.30-7.30—See Rome (No. 1).
 7.30—Music.
 7.40 (Rome (No. 2) only)—News in English.
 8.0—"Trampoli"—Three-Act Play (Pugliese). News in German.
 9.30 (approx.) — Programme of Melodies. Radio Orchestra, Conductor: Salerno.



Otakar Jeremiás, the conductor of this evening's Symphony concert from Prague. The singer will be Mme. Budiková, his wife

"Faust" (Berlioz). In the interval, Talk.
 9.15—Giarda (Organ). Prelude and Fugue in C minor (Bach). Canzone natalizia (Giarda). Natale (Bossi). Inno di gloria (Ravanello). Pastorale (César Franck). Scherzo in C minor (Guilmant). Three Pieces (Grieg).
 10.0—News.
 10.15-10.50—Dance Music.

SOTTENS (Switzerland)

677 kc/s (443.1 m.); 100 kW. Relayed by Geneva, 401 kc/s (748 m.).
 8.55-11.30 a.m.—From Geneva.
 8.55—Chimes.
 9.0—Protestant Service.
 10.15—William Montillet (Organ). Fantasia and Fugue in G minor (Bach). Trios in G minor and E flat (Krebs). Finale from the Gothic Symphony (Widor).
 11.0-11.20—Daily Wisdom.
 11.30—News; Weather.
 11.40 a.m.-1.0 p.m.—Records.
 5.0-6.50—From Geneva.

Marx). Canons: (a) Es ist ein Ros' entsprungen (Prætorius), (b) In dulci jubilo (Bach).
 4.30—Reading.
 5.0—Methodist Service from Uppsala.
 6.15—Weather; News.
 6.30—Göteborg Radio Orchestra, Conductor: Eckerberg. Overture, "Martha" (Flotow). Selection, "Aida" (Verdi). La feria (Lacôme). Dorfschwalben aus Oesterreich (Strauss). Slav March (Tchaikovsky).
 7.30—A Play.
 8.30—Partita in C minor (Bach) by Anna-Lisa Lindahl (Pfte.).
 8.45—Weather; News.
 9.0-10.0—Gunvor Olsson (Songs), Törnqvist and Hylbom (Violins), Witkowsky (Pfte.). Six Duets for Two Violins and Pfte. (Godard). Songs (Backer-Gröndahl). Songs (Nordqvist). Violin: (a) Larghetto (Weber-Kreisler), (b) Slav Dance in G minor (Dvořák-Kreisler), (c) Sicilienne and Rigaudon (Franceur-

SUNDAY (December 19)

10.0—News.
10.15-10.55—Dance Music.

VIENNA (Austria)

592 kc/s (506.8 m.); 100 kW. Relayed by Graz and Linz, 886 kc/s (338.6 m.); Innsbruck, 519 kc/s (578 m.); Klagenfurt and Vorarlberg, 1,294 kc/s (231.8 m.); and Salzburg, 1,348 kc/s (222.6 m.).
6.45 a.m. — Chimes; Fantasia on "Wachet auf, ruft uns die Stimme" (Reger) by Friedrich Mihatsch (Organ).
7.5—Motto; News; Gym.
7.30—Hints for the Week; Records.
8.45 — Mass from the Franciscan Church.
10.0—For Country People.
10.40—Announcements.
10.45—Christmas Concert. Vienna Symphony Orchestra, The Dreizehnlinden Choir and the Wienerwald Sängerknaben. Conductors: Habel and Bauernfeind (Organ). Emilie Rutschka (Contralto). Ein Weihnachtsingen (Jochum). Ein Weihnachtsmärchen (Stöhr).
11.35—Winter Relief Concert. Station Orchestra. Conductor: Holzer. Rainer-Marsch (Schmid). Overture, "Die Fledermaus" (Strauss). Selection, "La Traviata" (Verdi). Barcarolle, "Tales of Hoffmann" (Offenbach). Hessenmarsch (Pernklau). Waltz, Tales from the Vienna Woods (Strauss). March, Funkgrüsse (Schlemmer). Selection, "The Bird Fancier" (Zeller). Geh, mach dei Fensterl auf! (Jurek). Selection, "Where the Lark sings" (Lehár). March, Oberst Plammer (Pilles).

Viennese Folk-Music Potpourri (Komzák).

1.5 p.m. — Trailer of Next Week's Programmes.
1.15—Opening of the Galzig Mountain Railway (Recorded).
1.45—News; Books.
2.25—Records: Light Music.
2.50—Talk: American Philosophy.
3.15—Christmas Greetings from the Children of Austria to the Children of Denmark. Songs by a Children's Choir, Danish Folk-Music and Addresses in Danish and German.
3.40 — Parts III and IV, Christmas Oratorio (Bach) from the Kreuzkírche, with a Chamber Orchestra, the Bach Choir, Erika Rokyta (Soprano), etc. Conductor: Julius Peter.
4.40—Talk.
5.5—Old and New Viennese Music. Station Band. Conductor: Sandauer. Franz Schier (Songs).
6.0—Time; Sports.
6.10—Waggerl reads.
6.40 — Opera Arias by Ella Flesch (Soprano), Arias, "Macbeth" (Verdi), "Tosca" (Puccini), "Die tote Stadt" (Korngold), and "Salome" (Richard Strauss).
7.10—Concert of Folk-Music and Popular Music — Station Orchestra and the German Folk-Song Society. Conductor: Schönherr. Lya Beyer (Soprano), Luise Freyer-Zeidler (Harp) and Yodellers. Fliegermarsch (Dostal). Soprano: Song, "The Bird Fancier" (Zeller). Choral Pieces. Overture, "Auf der grünen Wiese" (Benes). Harp: Schubert Fantasia (Trniecek-Dreyer). Soprano: Altes Wiener Häuserl,

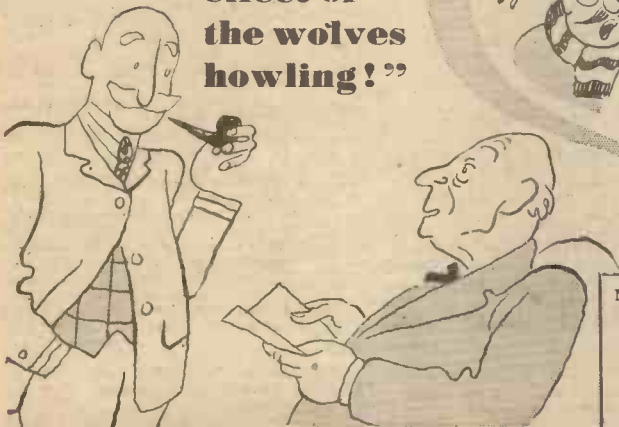
Stiller Erdenwinkel (Albrecht). Lustige Musikanten (Mainzer). Polka, Der Spitzbub (Rixner). Choral Pieces. Harp: Spieldose (Pönitz - Dreyer). Flugs-umi! (Schönherr).
8.0—Greetings to Austrians in Switzerland. Address by Baron Hammerstein-Equord.
8.5 (approx.) — Concert (contd.). Paraphrase on "Alle Jahre wieder kommt das Christuskind" (Derksen). Soprano: Unter dem Lindenbaum, "Die Kätzchen" (Felix). Choral Pieces. Scherzo—Fugue on "Wer niemals einen Rausch gehabt" (Kinzl). Harp: Spieluhr (Stern). Soprano: In einem kleinen Café in Hernalz (Leopoldi). Choral Pieces. Aus meiner Jugendzeit (Kliment). Sturm-Galopp (Komzák).
8.35—Records.
9.10—News; Programmes.
9.30—A Short-Wave Trip round the World.
10.0—News.
10.5-10.30—Dance Records: Jack Hylton and his 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.); Poznan, 868 kc/s (345.6 m.); Torun, 986 kc/s (304.3 m.); and Wilno, 536 kc/s (559.7 m.). Transmits at intervals from 7.0 a.m.
11.3 a.m. (from Poznan)—Symphony Orchestra. Conductor: Batoszewski. Slovak Suite (Novak). Luzyce Dances (Krawek). Nutcracker Suite (Tchaikovsky).
12.0 noon—Review; Reading.
12.30 p.m. (from Lwów)—Orchestra. Conductor: Seredynski. Lipczynska

and Szafran (Two Pftes.). Opera Fantasia (d'Albert). Pftes.: Two Andalusian Dances (Infante). Meyerbeer Potpourri (Urbach). Tchaikovsky Potpourri (Urbach). Pftes.: Red and Blue (Edwards), Vltava (Smetana); at 1.0—Winter Competition.
1.45—For Country People.
2.45—For Children.
3.5 (from Katowice)—Mozart Concert—Smyk (Oboe), Manowski (Clarinet), Wisniewski (Hunting Horn), Miller (Bassoon), and Markiewicz (Pfte.). Quintet in E flat. Divertimento in E flat for Oboe, Bassoon and Pfte.
3.45—Reading.
4.0—Station Orchestra, etc. Conductor: Górzynski; at 5.0, Educational.
6.0 — "Nicolo Paganini" — Play (Nadzin).
6.40—Topical Talk.
6.50 (from Torun). — Nowowiejski Concert—Symphony Orchestra and Choir. Conductor: The Composer. Pomeranian Hymn. Psalm, Jerusalem. Hymn to the Baltic Sea. Overture and Dance, "The Legend of the Baltic."
7.35—Programme Notes.
7.40—Political Review.
7.50—News; Sports Notes.
8.15 (from Wilno)—"The Wilno Cuckoo"—Programme by Bujnicki, Debrowski and Szeligowski.
9.0—Lorenzo Conati (Songs). Prologue, "I Pagliacci" (Leoncavallo). Recitative and Aria, "Le roi de Lahore" (Massenet). Visione veneziana (Brogi). Ultima canzone (Tosti). Aria, "A Masked Ball" (Verdi).
9.25—Sonata in G (Brahms) by Uminska (Violin) and Dygat (Pfte.).
9.50-10.0—News.

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Dec. 20 MONDAY

NATIONAL

Time Signals (normally): Big Ben, 10.15 a.m., 5.15 p.m., 12 mid-night, Greenwich, 10.30 a.m., 2.0, 6.0, 9.0, 11.30 p.m., 10.15 a.m. (D)—Service. 10.30 (D)—Weather Forecast. 10.45—BBC Welsh Orchestra: Annie Davies (Soprano). 11.45—Cinema Organ. 12.15 p.m.—Records. 12.30—BBC Scottish Orchestra: John Tainsh (Tenor). 1.30—Talk. 1.45—Eric Thiman (Organ). 2.15—Records. 3.0—Light Orchestra. 3.30—Phyllis Sellick (Pfte.). 4.0—Vest-Pocket Vaudeville. 4.30—Records. 5.0—Marie Korchinska (Harp). 5.20—The Alphas. 6.0—The First News. 6.20—Music by Eric Coates. 7.0—Monday at Seven. 7.45—The Plums. 8.0—Design in Everyday Things: Anthony Bertram. 8.30—Broadway Matinée from U.S.A. (by courtesy of C.B.S.). 9.0—The Third News. 9.20—World Affairs. 9.35—Jelly D'Aranyi (Violin); Myra Hess (Pfte.). 10.30—"Night Shift." 10.50—New Georgian Trio. 11.15—Bram Martin's Dance Orchestra. 11.30-12.0—Dance Records.

REGIONAL

Time Signals (normally): Big Ben, 10.15 a.m., 5.15 p.m., 12 mid-night, Greenwich, 10.30 a.m., 7.0, 10.0, 11.30 p.m. 10.15-10.45 a.m. (ex. Western)—National. 10.45 (ex. Western)—Bobby Howell and his Band. 10.45 (Western)—National. 11.30 (ex. Western)—"More Stories:" A. B. Campbell. 11.45 (ex. Western)—Broadhurst Septet. 12.30 p.m. (ex. Western)—Dance Records. 1.0 (ex. Western)—Ballads. 1.30 (ex. Western)—Records. 2.15 (ex. Western)—Light Orchestra. 3.0 (ex. Western)—Eastbourne Municipal Orchestra. 3.45 (ex. Western)—Short Story. 4.5 (ex. Western)—Sonata Recital. 4.35 (ex. Western)—Cinema Organ. 5.0 (ex. Western)—Children's Hour. 5.0 (Western)—National. 6.0 (Regional, Welsh)—Gershom Parkinson Quintet. 6.0 (Midland)—Band: Charles Hedges (Tenor). 6.0 (Northern)—Anatomy of Music. 6.0 (Western)—Al Durrant and his Dance Orchestra. 6.0 (N. Ireland)—Records. 6.0 (Scottish)—Scots Songs. 6.30 (Regional, Western, Scottish)—Reginald Foort (BBC Theatre Organ); Heddle Nash (Tenor). 6.30 (Welsh)—Harold Dobbs' Band. 6.40 (Midland)—"The Changing Midlands:" Geoffrey Bounphrey. 6.40 (N. Ireland)—"Ulster Schools." 6.45 (Northern)—True story. 7.0—The Second News. 7.20—Regional Announcements. 7.30 (ex. Northern, Welsh, N. Ireland)—"At the Ship Inn," by Bernard Walke. 7.30 (Northern)—C. H. C. Biltcliffe (Organ). 7.30 (Welsh)—Aneurin Rees (Organ). 7.30 (N. Ireland)—For Ulster Farmers. 7.45 (N. Ireland)—"London Line." 8.0 (ex. Western, Scottish)—Stage Show from the Gaumont State Cinema, Kilburn. 8.0 (Western)—Male Voice Quartet. 8.0 (Scottish)—R. Kinloch Anderson (Pfte.); Scottish Orchestra. 8.25 (Western)—"A Hundred—Not Out." 8.45 (ex. Midland, Welsh, Scottish)—BBC Orchestra (Section D): Ruth Naylor (Soprano). 8.45 (Midland)—BBC Midland Orchestra, conducted by Leslie Heward. 8.45 (Welsh)—Welsh short story. 9.0 (Scottish)—Pantomime Rehearsal: "Puss in Boots." 9.5 (Welsh)—BBC Welsh Orchestra. 9.20 (Scottish)—Winter Poetry. 9.30 (ex. Midland, Northern, Welsh)—Swing Music from Paris. 9.30 (Midland)—The Ritz Players. 9.30 (Northern)—"A Busy Christmas." 9.45 (Welsh)—Welsh talk. 10.0—News Summary. 10.25 (ex. Western)—Bram Martin and his Dance Orchestra. 11.30 (ex. Western)—Late News Summary. 11.40-12.0—Records.

Hours of Transmission in Greenwich Mean Time.

ATHLONE (Ireland) 565 kc/s (531 m.); 100 kW. Dublin, etc. See Sunday. 1.30-3.0 p.m.—Records. 5.30—Among the Children. 6.0—Records: Old Ballads. 6.20—Talk in Irish by O'Cronchaile. 6.35—Irish News Feature. 6.45—News. 7.0—Dramatic Reading by Muriel Munro. 7.15—Sonata (Beethoven) by W. J. Watson. 7.45—"Father Noah"—Play (Geoffrey Whitworth), produced by Liam O'Laoghaire. 8.15—Laurie (Bass). 8.30—"Improve your Bridge"—Joseph O'Neill with N. G. Freehill. 8.50—Wind Quartet. 9.15—"Oh, those Christmas Presents" by Michael Tierney. 9.30—Variety. 10.30—News. 11.0—National Anthem.

BERLIN (Germany) 841 kc/s (356.7 m.); 100 kW. Transmits at intervals from 5.0 a.m. 11.0 a.m.—See Leipzig. 1.0 p.m.—Weather; News. 1.15—Station Orchestra. 2.15—Exchange; Markets. 2.35-3.0—Records. 3.30—"Gingerbread Men." 4.0—Burchard-Kaiser (Bass), Margarette Ansoerg (Pfte.), Part I, Songs. Talismane (Schumann), Freisinn (Schumann), Der Wanderer an den Mond (Schubert), Der Strom (Schubert), Aufenthalt (Schubert), Part II, Pfte. Fantasia-Polonaise (Chopin), Invitation to the Dance (Weber). 4.30—"Jack Frost"—Sequence (Brandt). 4.50—Book Talk. 5.0—Records. 6.0—News. 6.10—See Breslau; at 6.45—Evening Echoes. 8.0—Fröhlich Band. 9.0—News; Sports. 9.30-11.0—See Cologne.

BEROMÜNSTER

(Switzerland) 556 kc/s (539.6 m.); 100 kW. Relayed by Basle and Berne, 1,375 kc/s (218.2 m.). 5.30-5.50 a.m.—Gym. 11.0—Records. 11.29—Time; News; Exchange. 11.40 a.m.—12.45 p.m.—Records: Light Music. 3.0—For Women. 3.30—Restaurant Concert. 4.0—Chamber Music. 4.50—Records: Imre Magyari Cigany Band. 5.0—For Children; Records. 5.40—Musical Anecdotes. 6.0—Records. 6.15—Talk: Sacred Mountains. 6.45—Weather; News. 6.55—Trio (Beethoven) by the Radio Berne Pfte. Trio. 7.25—Talk: Swiss Independence—1856-1860. 7.45—The Berne Workers' Band. 8.15 till Close—For Swiss Abroad. 8.15—Weekly Review. 8.30 (from Berne)—"O du fröhliche, o du selige gnadenbringende Weihnachtszeit"—A Christmas Programme. 9.30-9.35—Announcements.

BORDEAUX-LAFAYETTE

(France) 1,077 kc/s (278.6 m.); 35 kW. Transmits at intervals from 6.30 a.m. 9.0 p.m.—Concert by the Association des Concerts classiques. Conductor: Gaubert. Kilenyi (Pfte.). 10.30 (approx.)—News.

BRATISLAVA

(Czechoslovakia) 1,004 kc/s (298.8 m.); 13.5 kW. Transmits at intervals from 5.15 a.m. 6.15 p.m.—"Princess Hyacinth" (Nedbal). Station Orchestra and Speaker. Conductor: Dyk. 7.40—Talk by Dr. Petr Zenkl, Mayor of Prague: Our Capital and the Slovaks. 7.55-9.15—See Prague. 9.15—News (Hungarian). 9.30-10.0—Records.

BRESLAU (Germany)

950 kc/s (315.8 m.); 100 kW. Relayed by Gleiwitz and Görlitz, 1,231 kc/s (243.7 m.). Transmits at intervals from 4.30 a.m. 11.0 a.m.—See Hamburg. 1.0-2.0 p.m.—News; Exchange; Records. 2.30—The Christmas Hare.

3.0 (from Gleiwitz)—Festival Concert. Upper Silesian Frontier Theatre Orchestra. Conductor: Lukacs; Upper Silesian Chamber Trio. Overture, "Der Freischütz" (Weber). Trio (Stamitz). Drum-Roll Symphony (Haydn). Trio in E flat (Telemann). Mummenschanz (Kiessig). Baroque Suite (Atterberg). Hungarian March (Berlioz); at 4.0—Book Review. 5.0—Talk: Mistletoe. 5.15—Book Review; Reading. 5.50—Programmes; Markets. 6.0—News. 6.10—Blue Monday: "Alle Puppen tanzen"—Christmas Play (Albrecht); Music by Sattler. Station Choir, Dance Band and Dramatic Troupe. 8.0—Motto. 8.10—Grohmann Quartet from Websky Castle. Commentary by Hans Spelsberg. Quartet in B flat (Haydn). Quartet in C (Beethoven). 9.0—News; Interlude. 9.30-10.30—See Cologne.

BRNO (Czechoslovakia)

922 kc/s (325.4 m.); 32 kW. Transmits at intervals from 5.15 a.m. 6.15 p.m.—See Bratislava. 7.40—Sports Notes. 7.55-10.0—See Prague.

BRUSSELS (No. 1)

(Belgium) 620 kc/s (483.9 m.); 15 kW. 6.30-9.5 a.m.—Records; Gym; News. 12.0 noon—Records: Light Music. 12.30 p.m.—Weather; Shipping. 12.32—Schnyers Orchestra; at 1.0-1.10—News. 1.30—Records: Light Music. 2.0-2.3—Art Notes. 4.55—News. 5.0—Candrix Orchestra; at 5.15—Talk: The Walloon Museum. 5.45—Talk; Record: In a Persian Market (Kettelbey). 6.0—The Flemish Marionettes. 6.30—Quartet in E flat (Schubert) by the Calvet Quartet. 7.0—Hygiene and Sports Reviews; Interview. 7.15—Records: Viennese Music. 7.30—News. 8.45—Surprise Programme. 8.45—Records: Rapsodie espagnole (Ravel).

BRUSSELS (No. 2)

(Belgium) 932 kc/s (321.9 m.); 15 kW. Programme in Flemish. 6.30-9.5 a.m.—Records; Gym; News. 12.0 noon—Records: Light Music. 12.30 p.m.—Salon Orchestra, with Record of Richard Crooks (Tenor). 1.0—News; Orchestra (contd.). 1.30-2.0—Records. 4.55—News. 5.0—Orchestra. Conductor: Walpot. Wisá Sergeant (Pfte.). Overture (Luigini). Selection, "Tsar and Carpenter" (Lortzing). Pfte.: (a) Nocturne in F sharp (Chopin), (b) Polonaise in E (Liszt). Petite suite (Chaminade). 5.45—For Children. 6.30—Salon Orchestra. 6.45—Talk. 7.0—Records: "Lohengrin" Wagner). 7.30—Theatre and Sports Notes. 8.0—Christmas Programme by the "Blauwe Vogel" Cabaret Ensemble, with the Station Orchestra. 8.45—Talk. 9.0—Cabaret Ensemble (contd.). 10.0—News. 10.10-11.0—Records: Light Music.

BUCHAREST (Romania)

823 kc/s (364.5 m.); 12 kW. Relayed by Radio-Romania, 160 kc/s (1,875 m.). Transmits at intervals from 4.30 a.m. 4.0 p.m.—Time; Weather. 4.2—Talk. 4.17—Concert. 5.0—Topical. 5.15—Crailova Girls' Choir. 5.45—Talk. 6.0—Waltzes and Marches—Radio Orchestra. Conductor: Nottara. 7.15—Medical Talk. 7.30—Romanian Composers—Anne Voilceanu-nicoara (Pfte.) and Mme Manci Barberis-Placinteano (Songs). Pfte.: (a) Sonatina (Andric), (b) Folk Dance Suite (Sabin Dragoi), (c) Rondo (Marian Negra). Songs (Brediceano,

Kiriac, Brailoi, Enesco, Mihail Jora and Alessandresco). 8.30—News; Sports. 8.45—Giurgea Orchestra. 9.45—News (French, German).

BUDAPEST (No. 1)

(Hungary) 546 kc/s (549.5 m.); 120 kW. Transmits at intervals from 5.45 a.m. 11.5 a.m.—Mme Pethö and Lion-tas Konstantin (Songs). 11.30—News. 12.30 p.m.—Military Band. 1.40—News. 3.15—For Schools. 4.0—Talk: Ornithology. 4.30—Maria Füzesséry (Pfte.). 5.0—Talk. 5.30—Szenássy Cigany Band. 6.30—Zsuzsa Thury—Humorous Talk. 7.0—Lasko Vocal Ensemble. 7.50—News. 8.10—Opera Orchestra. Conductor: Rajter. Overture, "Cosi fan tutte" (Mozart). Symphony in G minor (Mozart). Prelude, Aria and Fugue (Vikes). Divertimento (Trapp). 9.25—Dance Records. 10.0—News in German. 10.20—Toni and Misi Lakatos Cigany Band. Cselényi (Songs). 11.5—News.

BUDAPEST (No. 2)

(Hungary) 359.5 kc/s (834.5 m.); 18 kW. 5.30 p.m.—Talk. 6.0—German Lesson. 6.35—Records. 7.40—Virány Jazz Band. 8.40—News.

COLOGNE (Germany)

658 kc/s (455.9 m.); 100 kW. Transmits at intervals from 5.0 a.m. 11.0 a.m.—See Hamburg. 1.0 p.m.—News. 1.15—Guitar, Cello and Pfte. 2.0—For Children. 2.30—Reading; Markets. 3.0—See Deutschlandsender. 4.0—Talk: The Wupper Dams. 4.15—Mia Bischoff (Contralto) and the Otterbach Trio. 4.50—What do you think? 5.0—Records of Lauri-Volpi (Tenor). 5.30—Reading. 5.50—Dialect Songs and Tales. 6.0—News. 6.10—Station Orchestra. Conductor: Kühn. Grape (Pfte.). Part I, Scandinavian Music. Värmland Rhapsody (Atterberg). Floden (Palmgren). Norwegian Rhapsody (Svendsen). Part II, Unfamiliar Strauss Music. Overture, "Blinddekuh." Waltz, Feenmärchen. Polka-Mazurka, Fata Morgana. Waltz, Phönix-Schwinger. Traumbild. Unter Donner und Blitz. In the interval, Reading: "The Bridal Pair" (Hans Andersen). 8.0—Weekly Review. 8.30—Dance Records. 9.0—News. 9.30-11.0—Light and Dance Music. Station Orchestra, Cologne Pfte. Duo and an Instrumental Quartet.

DEUTSCHLANDSENDER

(Germany) 191 kc/s (1,571 m.); 60 kW. Transmits at intervals from 5.0 a.m. 11.0 a.m.—See Hamburg. 12.50 p.m.—News. 1.0—Variety. 2.0—Exchange; Programmes. 2.15—Opera Records. 2.45—Talk: Picture Books. 3.0—Orchestra: Overture, "Donna Diana" (Reznicek). Legends (Dvořák). Shakespeare Suite (Humperdinck). Gewittermusik (Wappenschmidt). Tarantella, Venezia e Napoli (Liszt). Aragon (Gebhardt). Ballet Music, "William Tell" (Rossini). Scenes pittoresques (Massenet). Variations on "Ach, wie ist's möglich dann" (Raff). Unter Märchenkönig's Stab (Mackenroth). Herbstzauber (Haseneder). 5.0—Lullabies and Carols. 5.30—Christmas Festivities at the Reich Motor Roads Central Offices—Address by Dr. Todt, Minister of Transport. 6.0—Motto; News. 6.10—Variety with the Joost Band, Kate Kühl, Inge Vesten, etc. (Recorded). 7.0—Fifth Philharmonic Concert. Guest Conductor: Kabasta. Henry Holst (Violin). Symphony

in D (Mozart). Violin Concerto in D (Beethoven). Iberia (Debussy); at 8.0-8.15—A Visit to Käthe Kruse. 9.0—News; Topical. 9.30-9.45—Celeste Chop-Groenvelt (Pfte.). Arabesques on "Künstlerleben" (Strauss-Fuhrmeister). -Ballad (Pirani). 10.0-11.0—Von Geczy Band.

FRANKFURT (Germany)

1,195 kc/s (251 m.); 25 kW. Cassel, etc. See Sunday. Transmits at intervals from 5.0 a.m. 11.0 a.m.—See Hamburg. 1.0 p.m.—Time; News; Records. 2.0—Talk; Markets. 2.15-2.45—For Children. 3.0—Hanau Municipal Theatre Orchestra, Helmi Rau (Soprano), Joop de Vries (Tenor). Ballet Music, "Les petits riens" (Mozart). Overture, "The Italian Girl in Algiers" (Rossini). Aria, "The Barber of Seville" (Rossini). Suite, "L'Arlesienne" (Bizet). Aria, "Carmen" (Bizet). Overture, "Der Opernball" (Heuberger). Tales from the Vienna Woods (Strauss). Overture and Arias, "The Land of Smiles" (Lehár). Selection, "Clivia" (Dostal). March. 4.30—Carols. 5.0—Topical. 6.0—News; Weather. 6.15—See Stuttgart. 8.0—The Magic of Christmas, Luise Richartz (Contralto), Peischer (Violin), Schröter (Pfte.), Songs (Schumann): (a) Himmel und Erde, (b) Wehmüt, (c) O ihr Herren, (d) Meine Rose, Sonata in D minor (Schumann), Songs (Schubert): (a) Lied eines Schiffers an die Dioskuren, (b) Die Sterne, (c) Geheimis, (d) Die Taubenpost. 9.0—Time; News; Sports. 9.15—Christmas Books. 9.30—See Cologne. 11.0-12.0 m't.—See Stuttgart.

HAMBURG (Germany)

904 kc/s (331.9 m.); 100 kW. Bremen, etc. See Sunday. Transmits at intervals from 5.10 a.m. 11.0 a.m.—Orchestra and Songs. 1.0 p.m.—News. 1.15—Light Music. 2.0—Shipping; Markets. 2.25—Christmas Choral Music. 2.50—Ice Report. 3.0—Variety Concert, Dance Band, Male Voice Quartet, Berlin Pfte. Trio, Erna Kroll-Lange (Soprano), Gregor (Organ). Talks in the intervals. 5.0—Schubert and Loewe Songs by Gustav Neidinger. 5.35—Weather; Shipping. 5.45—See Munich. 6.0—News. 6.10—"De Ebener"—Dialect Play (Diers). 7.0—Records: German Folk Dances. 7.15—Concert from the Musikhalle. Station Orchestra and Hitler Youth Instrumentalists and Choir. Conductor: Röder. Part I, Old Music. Brandenburg Concerto in G (Bach). Choir: (a) Der Liebe Macht herrscht Tag und Nacht (Krieger), (b) Zum neuen Jahr (Reichardt). Flute Concerto in D (Mozart). Part II, Contemporary Music. Music for Strings (Spitta). Choir: (a) Anknüpflied am Feuer (Baumann), (b) Das Lied des Wächters (Baumann), (c) Sonnenwendlied (Ludwig Weber—Girmatis). German Choral (Maasz). First Movement, Concerto grosso (Bresgen). Choir: Heilig Vaterland (Spitta). 9.0—News. 9.15—Review of a New Atlas. 9.30-11.0—The Bremen Stadtmusikanten.

HILVERSUM (No. 1)

(Holland) 160 kc/s (1,875 m.); 10 kW until 2.40 p.m.; 150 kW from 2.40 p.m. Also on Lopikerkapel, 722 kc/s (415.4 m.); 17 kW from 2.40 p.m. NCRV Programme. 7.40 a.m.—Bible Reading; Meditation; Records: Sacred Music. 8.10—Records. 8.10—Greetings; Records. 10.10—Religious Programme. 10.40—Reading. 11.10—Records. 11.55—R-

MONDAY (December 20)

12.10 p.m.—"Stichtsch" Orchestra.
 1.40—For Schools.
 2.15—Records.
 2.40—Talk.
 3.25—Bible Reading.
 4.25—For Children.
 5.25—v. d. Hurk (Flute) and Monissen (Pfte.).
 6.10—Letter-box.
 6.40—News; Announcements.
 6.55—Letter-box.
 7.25—Report; News; Records.
 8.10—NCRV Choir. Conductor: Couvée. Bouwmeester (Organ).
 8.45—Recitation.
 8.50 (approx.)—NCRV Choir (contd.).
 9.50—News; Talk.
 10.10—Bouwmeester (Organ).
 10.25—Gymnastics.
 10.40-11.40—Records; Bible Reading.

HILVERSUM (No. 2) (Holland)

995 kc/s (301.5 m.); 15 kW until 6.10 p.m.; 60 kW from 6.10 p.m.
 VARA Programme.
 7.40 a.m.—Records.
 9.40—VPRO Service.
 10.0—Recitation; Records.
 11.10—Steyn (Organ).
 11.40—Records.
 12.10 p.m.—VARA Orchestra. Conductor: de Groot.
 12.55-1.25—Records.
 1.40—Bronkhorst ('Cello) and Wins (Pfte.).
 2.10—Recitations.
 2.40—Betsy Kinsbergen (Songs).
 3.10—Records.
 4.10—For Children.
 4.40—Jong (Organ).
 5.40—Amateurs' Programme.
 6.15—Music Talk; Records.
 6.50—Talk.
 7.10—Orloff (Pfte.).
 7.40—News.
 7.50—Report.
 8.55—Talk.
 9.0—Accordion Band. Conductor: Steyn; v. Daalen (Songs).
 9.20—Records.
 9.30—Jong (Organ).
 9.40—News.
 9.45—VARA Orchestra. Conductor: de Groot; Loumann (Baritone).
 10.40—Records.
 10.55—Concert by the "Fantasia." Conductor: Walis.
 11.25-11.40—Records.

KALUNDBORG (Denmark)
 240 kc/s (1,250 m.); 60 kW. Relays Copenhagen, 1,176 kc/s (255.1 m.).
 Transmits at intervals from 6.0 a.m.
 11.0 a.m.—1.0 p.m.—Preil's Ensemble.
 1.10—Jutland Dialect Reading.
 1.30—Theo Andersen's Orchestra from Slagelse. Potpourri, Servus Wien (Dostal). The Rosary (Nevin). Romance in G flat (Norskov) by the Composer (Pfte.). Sag beim Abschied leise Servus (Kreuder). Skin ud, du klare Solskin (Lange-Müller). Slav Rhapsody (Friedemann). Excerpts, "The Merry Widow" (Lehár). For you alone (Geehl). Selection, "La Bohème" (Puccini). Schön Rosmarin (Kreiser). Tonerne (Sjöberg). Air for 'Cello. Overture, "Orpheus in the Underworld" (Offenbacher-Binder); at 2.15—For Women; and at 2.25—Signe Wernhagen (Swedish Songs).
 3.30-3.50—For Children.
 4.0—Talk—Swedish Christmas Preparations.
 4.25—Weather; Exchange; Markets.
 4.50—Sonata in G minor (Henriques) by Carlo Andersen (Violin) and Folmer Jensen (Pfte.).
 5.15—Talk.
 5.35—English Lesson.
 5.55—Wireless Notes.
 6.0—Time; News.
 6.30—Talk: The 1866 Constitution.
 7.0—Christmas Concert.
 7.45—Pictures from Daily Life.
 8.15—Oluf Ring Choir with Commentary by Oluf Ring. Hvem er det, der bryder (Aagaard). Endnu engang foryng (Ring). Min Plet af Fødelandets Jord (Riis-Magnussen) Nat i Osten er je saa lang (Laub). Hjerte, løft din Glaedes Vingler (Crüger).
 8.45—Reading (Luesen).
 9.5—News.
 9.25—Quartet in C sharp minor (Beethoven) by the Strub Quartet.
 10.5—Tourist Talk in Czech.
 10.20-11.30—Louis Preil's Dance Band; at 11.0—Chimes.

KÖNIGSBERG (Heilsberg) (Germany)

1,031 kc/s (291 m.); 100 kW. Relayed by Danzig, 1,303 kc/s (230.2 m.).
 Transmits at intervals from 5.0 a.m.
 11.0 a.m.—See Hamburg.
 1.0 p.m.—News; Talk; Music.
 1.55-2.0—Exchange.
 2.30—Play for Children (Ilse Weschollek).
 2.45—Reading.
 3.0—Light Orchestral. Conductor: Kallipke. March, Mit Standarten (v. Blon). Overture, "The Lovely Galathea" (Suppé). Suite, Skizzen aus Russland (Fetras). Waltz, O du schönes Berchtesgadner Land (Wetzel). Serenade (Heykens). Selection, "Mignon" (Thomas). Novelette (Gebhardt). Ballet Music, "Tsar and Carpenter" (Lortzing). Suite, Tirol in Lied und Ton (Kozak). Ballet Music, "Faust" (Gounod). Waltz, Gipsy Love" (Lehár). March, In Treue fest (Teike).
 4.35—"Grey Hairs"—Sketch (Baumgart).
 4.50—Ice Report.
 5.0—For Hitler Youth.
 5.15—Songs of Work.
 5.50—Announcements.
 6.0—Weather; News.
 6.10—Old Music by Eggert (Baritone) and the Gebel Trio. Trio Sonata for Flute, Viola da Gamba and Spinnet (Roman). Songs. Trio for Flute, Viola da Gamba and Spinnet (Leclair).
 6.45—Topical.
 7.0—"Musical Stories"—Peter Arco and the Börschel Band.
 8.0—"Washing Day at Hohenziazit"—Folk Song Sequence (Elbertzhagen), with the Station Choir.
 9.0—News; Sports.
 9.20—History Talk.
 9.40-11.0—Music from Cologne.

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 Orchestra.
 1.0 p.m.—News; Exchange.
 1.10—Dance Records.
 2.10—Books for Youth; Talks.
 3.0—See Deutschlandsender.
 3.50—Weather; Markets.
 4.0—Leipzig Symphony Orchestra. Conductor: Weber. Irma Beilke (Soprano), Seider (Tenor).
 5.0—Talk: Medicine in Ancient Greece.
 5.20—Trude-Maria Schnell (Soprano), Wehding (Pfte.).
 5.40—Book Review.
 6.0—News.
 6.10—"The German Masters"—Popular Concert by Göpelt (Baritone), Burgert (Pfte.), and the Genzel Quartet.
 7.0—Monthly Review in Words and Music (arr. Schröter).
 9.0—News; Weather; Sports.
 9.30-11.0—Dance Music by Hetzer and the EmDe Orchestra.

LILLE (Radio PTT Nord) (France)

1,213 kc/s (247.3 m.); 60 kW. Transmits at intervals from 6.30 a.m.
 7.0 p.m.—Talk in English.
 7.15—Hélène Armitz (Violin).
 7.30—News; Weather.
 8.0—Rozanes Muzette Orchestra.
 8.30—Touring Conservatoire Concert. Conductor: Nivverd. After the Concert, News.

LYONS (PTT) (France)

648 kc/s (463 m.); 100 kW. Transmits at intervals from 6.30 a.m.
 7.0 p.m.—Concert.
 7.30—Radio Journal; Weather.
 8.0—Records and Talks.
 8.5—Reviews; Records.
 8.30 p.m.—"Der Freischütz" (Weber), with Mme. Malnoy-Marseillac, Planel, Hazart, etc., from the Salle Saint-Gilles, Moulins. Conductor: Labey.
 10.30 (approx.)—News (French, German).

MONTE CENERI (Switzerland)

1,167 kc/s (257.1 m.); 15 kW. Transmits at intervals from 11.0 a.m.
 6.45 p.m.—News.
 7.0—"Dance-mé terra 1"—Three-Act Play (Rossato).
 8.15-9.30—See Beromünster.

MOSCOW (No. 1) (Russia)

172 kc/s (1,744 m.); 500 kW.
 5.0 p.m.—Talk.
 5.30—Literature.
 6.0—Concert.

9.0—English Programme.
 10.0—Hungarian Programme.
 11.0-12.0 m't.—Spanish Programme.

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 noon—News.
 12.15 p.m.—Records.
 1.0—News; Exchange.
 1.15—See Berlin.
 2.0-2.30—For Children.
 3.0—Gröschel Quintet, Aenne Weinhöppel (Soprano).
 3.40—Book Review.
 4.0—Weather; Markets.
 4.15—Variety Concert with Carmen Becker (Songs), etc.
 5.45—Talk: The Four-Year Plan.
 6.0—Weather; News.
 6.10—Popular Hits old and new—Station Orchestra and Dance Band, Mimi Thoma (Contralto), Helgar (Tenor), Schmidt (Ocarina).
 7.50—Reading (Paul Ernst).
 8.10—"Steht ein Flammenstoss in tiefer Nacht"—Winter Solstice Cantata (Lauer).
 9.0—Time; News; Sports.
 9.20—Records; Light Music.
 10.0-11.0—Contemporary Music by the Station Orchestra (Recorded). Comedy Overture, Der Schneider Jahrestag (Burkhardt). Musik zu cinem Märchen (Hellmuth Schmid). Movements from the Sinfonietta for Strings (Lars-Erik Larsson). Nachtgedanken (Schroeder).



Sacha Guitry, whose comedy, "Quadrille," now at the Théâtre de la Madeleine, will be broadcast from Poste Parisien at 9 p.m. tomorrow, Tuesday

NAPLES GROUP (Italy)

Naples, 1,104 kc/s (271.7 m.); 10 kW. Florence (No. 1), etc. See Sunday.
 6.0 p.m.—Music; Songs.
 6.15—Topical; Records.
 7.0—See Rome (No. 1).
 7.30—Records.
 8.0—"Per la porta"—Three-Act Play (Felyne).
 9.0—Dance Music.
 10.0—News.
 10.15-10.55—Dance Music.

OSLO (Norway)

260 kc/s (1,153.8 m.); 60 kW. Fredrikstad, etc. See Sunday.
 Transmits at intervals from 7.30 a.m.
 3.30 p.m.—Records of Josef Schmidt (Tenor).
 3.45—Reading.
 4.0—News.
 4.5—Radio Ensemble.
 5.5—Reading.
 5.25—Qudrun Briean (Songs).
 5.45—News; Announcements.
 6.30—Economics; Talk.
 7.0—Oslo Philharmonic. Conductor: Kjølland. March (Hanssen). Norwegian Rhapsody (Svensen). Solitude (Bull). Suite, "Carmen" (Bizet). Pizzicato Polka (Strauss), Excerpts, "The Gipsy Princess" (Kálmán). Gallop (Lumbye).
 8.10—Foreign Affairs.
 8.40—News; Topical.
 9.15-9.45—Cabaret.

PARIS (Eiffel Tower) (France)

1,456 kc/s (206 m.); 7 kW. Transmits at intervals from 6.30 a.m.
 7.30 p.m.—Radio Journal; Weather.
 8.0—Mme Brindejont-Offenbach

(Songs, Ginette Doyen (Pfte.). Songs (Fauré). Pfte.: (a) Waltz in A flat (Chopin), (b) Impromptu (Chopin), (c) Cache-cache (Pierné), (d) Le petit âne blanc (Ibert). Song: Amons-nous (Gounod).
 8.30—See Lyons (PTT).
 10.30—Records.
 11.0-11.15—News; Weather.

PARIS (Poste Parisien) (France)

959 kc/s (312.8 m.); 60 kW. Transmits at intervals from 7.10 a.m.
 12.0 noon—Exchange; Records.
 12.10 p.m.—The Week's Programmes.
 12.25—News; Exchange.
 12.40—"Winter"—Programme with René Hérent.
 12.55—Records of Odette Moulin.
 1.15—Amusements; Records.
 1.30—Records: Cuban Trio.
 1.45—Records: Jean Tranchant.
 2.0, 3.45, and 4.35—Exchange.
 5.0—News; Cabaret.
 6.0—Exchange; News; Record.
 6.15—Radio Magazine, with Henry Bénazet, Jean Gandrey-Réty, and Pierre Basquaise.
 6.30—Poems (Magre).
 6.50—Records; Sports; Topical.
 7.5—Talk; Sports; Amusements.
 7.20—Records of Jean, Jac, and Jo.
 7.40—Records of the Rethy Cigány Band.
 7.50—Three Florelle Successes.
 8.0—Topical; Record: Germaine Sablon and Clément Doucet.
 8.15—Fred Adison Successes.
 8.30—"Under the Lamp" (Diamant-Berger).
 8.45—"La bonne histoire."
 8.57—News.
 9.0—Max Regnier and Company.
 9.55—News.
 10.0—Music.
 10.30-11.0—Cabaret.

PARIS (PTT) (France)

695 kc/s (431.7 m.); 120 kW. Transmits at intervals from 6.30 a.m.
 4.0 p.m.—Berthier (Organ), from the Schola Cantorum.
 4.30—Grimm's Fairy-Tales.
 4.45—Pfte. Sonata (Schumann) by Mme Ruff-Longeray.
 5.0—Talks; Records.
 5.37—For Gardeners; Announcements.
 5.50—Art Review.
 6.0—Talk: Songs of Liberty and Labour—from Charles Poncy (1843) to Eugène Pottier (1871).
 6.15—Talk: The Paris Bourse.
 6.30—Geneviève Tilly (Songs).
 6.45—Borthayre (Songs).
 7.0—Radio Journal; News.
 8.0—Jean Rivier Music presented by René Dumesnil, Mme Turbarabier (Songs), Pierre Fournier ('Cello), the Composer at the Pfte. Songs. Rhapsody for 'Cello and Pfte.
 8.30—"Christmas Eve in Provence"—Fantasy (Danjou).
 9.0—Chamber Music by the Société des Instruments Anciens, and Le Marc'hampôtre (Songs). Les plaisirs champêtres (Montclair). Song: Thétis (Rameau). Harpsichord: (a) Prelude and Fugue (Bach), (b) Tic, toc, choc (Couperin), (c) Gavotte (Martini), (d) Fileuse (Desmarests). Songs (Mozart). Trio Sonatina (Francoeur).
 10.0—"Pauvre gibier"—Fantasy (Tarault).
 10.30-11.0—News; Weather; Records.

PARIS (Radio-Paris) (France)

182 kc/s (1,648 m.); 80 kW.
 6.28 a.m.—Programmes; Records.
 6.40—News; Gym; Records.
 7.15—News; Records.
 8.0-9.20—News; Programmes; Records.
 10.15—Programmes; Song Records.
 10.30—Music at the Court of Versailles—Records.
 10.45—Reading.
 11.0—Debussy Records.
 11.15—Sonata Records.
 11.30—Records: Brittany in Music.
 11.45—Markets; Exchange.
 12.0 noon—Lafarge Orchestra. Conductor: Wande Walle.
 1.0 p.m.—News; Exchange; Markets.
 1.30—Mme Doniau-Blanc (Songs).
 1.45—Orchestra (contd.).
 2.0—Programme Notes.
 2.5—"Devant la porte"—One-Act Play (Duvernois).
 2.30—Exchange; Markets.
 2.45—Mme Roger Mielos (Pfte.).
 3.0—Louise Forgeur (Songs).
 3.15—Women's Journals.
 3.25—Review by Edmond Guiraud.
 3.35—Talk; Exchange; Markets.
 4.0—René Gallien (Songs).
 4.15—Madeleine Bentejac (Pfte.).
 4.30—Anniversaries.

4.45—Exchange; Markets.
 5.0—Bailly Orchestra. Comic Opera Overture (Finck). Loin du bal (Gillet). Selection, "No, No, Nanette" (Youmans). La pluie (David). Song, "As You Like It" (Quilter). Gaillarde de Lorenzaccio (Moret). Liebesfreud (Kreiser). Czardas (Gungl).
 11.0-11.15—News; Weather.
 6.0—Educational; Art Review.
 6.58—Programmes, Educational.
 7.30—Book Review; Dietetics.
 7.54—Paul Reboux; Time.
 8.0—Foreign Affairs.
 8.8—Home Affairs.
 8.15—Eve Govy (Songs).
 8.30—"Gwendoline" (Chabrier), from the Salle Gaveau. Marguerite Thys, Charles-Paul Faniard, the National Orchestra, Raugel Choir, Conductor: Inghelbrecht. In the interval, News; Review by Pierre Scize.
 10.30—Records of Sardanias.
 10.45-11.5—Time; News; Programmes.

PRAGUE (Czechoslovakia)

638 kc/s (470.2 m.); 120 kW. Transmits at intervals from 5.15 a.m.
 5.10 p.m.—German Transmission: Humorous Items; Talks.
 5.45—News (German).
 5.55—Record.
 6.0—News; Weather.
 6.10—Radio Hints.
 6.15—See Bratislava.
 7.40—See Brno.
 7.55—Station Orchestra. Conductor: Ancerl. Sigurd Rascher (Saxophone). Symphonic Variations (Dvořák). Symphonic Concerto (Lars-Erik Larsson). Reminiscences (Burian).
 8.55—Record.
 9.0—News; Sports.
 9.15—German Lesson.
 9.35—Record.
 9.40-10.0—News (German).

RADIO-NORMANDIE (France)

1,113 kc/s (269.5 m.); 15 kW.
 6.45 a.m.—Military Band.
 7.0—Records.
 7.15—News; Press Review.
 7.45—Physical Exercises.
 8.0—Light Music; Records.
 8.45—Jane and John.
 9.0—Light Music.
 9.45—Hildegarde.
 10.0—Records.
 10.15—Military Band.
 10.30—Light Music.
 11.0—Dance Music.
 11.15—Records.
 12.0 noon—Concert. Aria "Maitre Pathelin" (Bazin). La petite église (Delmet). Aria (Bach-Ysaye). La voix des chênes (Goublier). Il me faut ton amour (Selling). Recitation: La grand'mère (Hugo). Excerpts, "Ignace" (Dumas). J'ai tout quitté (Charlys). La chanson des bleds d'or (Doria). J'ai trouvé le bonheur (Poterat). Jamais (Cazes). Piece (Lehár). J'écoule la guitare (Charlys). Je lis dans tes yeux (Emmerichs). J'grains les chatouilles (Vallier-Buzelin). J'n'ai pas de grosse (Raiter). Sérénade du passant (Massenet). La Madelon (Robert). Je n'ai qu'une maman (Bartel-Bousquet). Quadrille, "La Mascotte" (Audran); at 12.45—News.
 2.0—Light Music.
 3.0—Film Fantasy.
 3.15—Records and Light Music.
 5.30—For Children.
 5.45—Records.
 6.0—Markets.
 6.5—Children's Corner.
 7.0—Chansonnettes.
 7.25—News; Records.
 8.0—Variety.
 9.0—Concert.
 11.0—Café Concert.
 11.45—News.
 12.0 m't.—Midnight Melodies.
 12.30-1.0 a.m. (Tuesday)—Dance Music.

RENNES-BRETAGNE (France)

1,040 kc/s (288.5 m.); 120 kW. Transmits at intervals from 6.30 a.m.
 6.45 p.m.—News (English).
 7.0—News.
 7.30—Songs from Marseilles (PTT).
 8.0—News; Records.
 8.10—Talk: Brittany at the Accession of Louis XIV.
 8.30—"La Robe de Noël"—Three-Act Play (Josse).
 10.30-11.0—See Paris (PTT).

ROME GROUP (Italy)

Rome (No. 1), 713 kc/s (420.8 m.); 50 kW. Bari (No. 1), etc. See Sunday.
 Transmits at intervals from 6.45 a.m.
 4.0 p.m.—News.

MONDAY (December 20)

4.15-4.50-Ireco Fuser (Organ) from the Bologna Conservatoire. 6.20-Royal Geographical Society's Report; Light Music. 7.0-Time; News. 7.20-Government Notes. 7.30-Light Music. 8.0-Vocal and Instrumental Concert. Conductor: La Rosa Parodi. Toti dal Monte (Soprano), Ferrauto (Tenor). Overture, "Nebuchadnezzar" (Verdi). Tenor Aria, "Mefistofele" (Boito). Soprano Aria, "Figaro" (Mozart). Tenor Aria, "La Bohème" (Puccini). Soprano Aria, "The Pearl Fishers" (Bizet). Andante from the Symphony in E (Tchaikovsky). Tenor Aria, "Mignon" (Thomas). Soprano Aria, "Linda di Chamonix" (Donizetti). Tenor Aria, "Tosca" (Puccini). Soprano Aria, "Rigoletto" (Verdi). Moment Musical (Schubert-Zandonai). Moto perpetuo (Paganini). 9.5-Film Notes. 9.15-"L'ultimo Romanzo"-Play (Lopez). 10.0-News. 10.15-10.50-Dance Music.

SOTTENS (Switzerland)

677 kc/s (443.1 m.); 100 kW. Relayed by Geneva, 401 kc/s (748 m.). 11.29 a.m.-12.45 p.m. - Time; News; Records. 4.0-5.0-See Beromünster. 5.0-To be announced. 5.20-5.25-Esperanto. 5.30-Bridge; Talk; Interlude. 6.15-Micro-Magazine. 6.50-News. 7.0-"The Star Stood Still"-Flemish Legend (Timmermans); Music by Marescotti. 7.45-Lyre Band. Conductor: Closset. Overture, "Orpheus in the Underworld" (Offenbach). Mascade (Lacôme). Waltz (Vollstedt). 8.15-9.30-See Beromünster. 9.30-10.0-Records.

STOCKHOLM (Sweden)

704 kc/s (426.1 m.); 55 kW. Motala, etc. See Sunday. Transmits at intervals from 6.20 a.m. 1.40-2.0 p.m.-Talk in English by C.S. Allwood; Ramsay MacDonald.

NATIONAL

For Time Signals, see Monday. 10.15 a.m. (D)-Service. 10.30 (D)-Weather Forecast. 10.45-Housekeeping talk. 11.0-Records. 11.30-Schwiler String Sextet. 12.15 p.m. - Part I, "Oliver Twist" (Dickens). 1.0-Records. 1.45-BBC Northern Ireland Orchestra: J. H. Chambers (Baritone). 2.45-Cinema Organ. 3.15-Records. 4.0-Jack Wilson's Versatile Five. 4.30-Records. 5.0-Light Music: The Kovacs Lajos Orchestra; Pierre Palla (Organ); Bob Scholte (Songs), from Amsterdam. 5.30-Records. 6.0-The First News. 6.25-BBC Military Band. 7.5-Music for Worship. 7.40-"Conversation Games," Hubert Phillips. 8.0-Variety. 9.0-"The Third News. 9.20-"The Spirit of Exploration," Admiral Sir William Goodenough. 9.35-"World's End": a new Nativity Play in Verse and Prose. 10.25-BBC Orchestra (Section D): Lisa Minghetti (Violin). 11.15-Vincent Ladbroke and his Orchestra. 11.30-12.0-Dance Records.

REGIONAL

For Time Signals, see Monday. 10.15-10.45 a.m. (ex. Western) - National. 10.45 (ex. Western)-BBC Welsh Orchestra: Teifion Williams (Baritone). 10.45 (Western)-National. 11.45 (ex. Western) - Cinema Organ. 12.15 p.m. (ex. Western)-Theatre Orchestra. 1.0 (ex. Western) - Philip Whiteaway Ensemble. 1.20 (ex. Western)-Charles Taylor String Quartet. 2.0 (ex. Western)-Book talk. 2.20 (ex. Western)-Band. 3.0 (ex. Western) - Torquay Municipal Orchestra: Dorothy Parfitt (Mezzo-Soprano). 4.0 (ex. Northern, Western)-Truc story.

4.5-Folk Music. 4.30-Reading (Bergman). 5.0-Records. 5.0-News; Topical. 6.30-Bund Band (Recordings). 7.30-A Tour of Norrland. 8.15-Light Music by Berghel Sunnegaard (Cello) and Ebbe Karlson (Songs). 8.45-Weather; News. 9.0-10.0-Waldimir Orchestra, Mita Libelle (Songs). Overture, "The Marchioness" (Trobäck). Waltz, "The Bayadère" (Kálmán). Songs (Lchár, Friml). Oriental Scenes (Riedel). Selection, "Der Bettelstudent" (Müllöcker). Songs (Tosti, Gastaldon, Clutsm). 9.0-10.0-News.

STRASBOURG (France)

859 kc/s (349.2 m.); 100 kW. Transmits at intervals from 6.30 a.m. 5.0 p.m.-Radio Review. 5.15-Nathalie Radisse (Pfte.) and Kaul (Violin). Sonata in D (Handel). Pieces (Simon): (a) Romance in F, (b) Sonata in A. 6.0-Talk: Songs of Liberty and of Work from Charles Poncy to Eugène Pottier; Exchange. 6.30-German Talk: Health Hints for Ski-ers. 6.45-Light music from Limoges (PTT). 7.0-News; Weather. 7.30-Songs from Marseilles (PTT). 8.0-News (German, French). 8.30-One-Act Plays: (a) "Les deux faces du disque" (Cita and Suzanne Malard), (b) "Solange et les Rois Mages" (Blanche Mefis). 9.30 Plays presented by Paul Castan, with Berthe d'Yd: (a) "Voix intérieures" (Castán), (b) "Les feux follets sont dans la ville"-after Hans Andersen (Bourbon), (c) "Chambre à deux" - after Ragusa (German). 10.30-News (French, German).

STUTTGART (Germany)

574 kc/s (522.6 m.); 100 kW. Transmits at intervals from 5.0 a.m. 11.0 a.m.-Concert. 1.0 p.m.-Melo Trio, etc. 2.0-Records. 3.0-Concert. 5.0-Emma Mayer (Contralto) and Müller (Baritone). 5.30-Topical.

6.0-News. 6.15-Variety Concert. Station Orchestra, Odeon Mandoline Band, Marita Gründgens (Songs), etc. 8.15-Christmas Music. Station Choir and Orchestra. Conductor: Steffen. Franz Formacher (Soprano), Jautz (Tenor). Overture, "Das Christelflein" (Pfitzer). Songs to Rainer Maria Rilke Text (Hesse). "Christnacht"-Hymn for Solo Voices, Choir, and Orchestra (Wolf). 9.0-Time; News; Sports. 9.30-See Cologne. 11.0-12.0 m't. - Serenade (Records). Romance in G (Reger). Scherzo in E flat (Reger). Songs (Richard Strauss): (a) Schlechtes Wetter, (b) Liebeshymnus. Waltz in A (Brahms). Quartet in B flat (Brahms). Guten Abend, gut Nacht (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.-Dance Music. 6.15-Opera Arias. 6.40-Light Music. 6.55-News; Sports; Variety. 7.20-Excerpts, "Titin des margitiques"-Film (Scotti). 7.40-Light Music. 8.45-Light Music; Talk. 9.15-Excerpts, "Normandie" (Mistraki). 9.30-Viennese Orchestra. Golden Rain (Waldteufel). Je n'ai vu que tes yeux (Eblingen). La mousmée (Ganne). Piece (Siedel). Fairy on the Clock (Myers). 10.0-News. 10.15-English Concert. 11.15-"Sous le ciel gris"-Fantasy. 11.50-12.0 m't.-News.

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

8.40 Oslo; 8.45, Stockholm; 9.0, German stations, Prague; 9.10, Vienna; 9.20, Beromünster; 9.45, Bucharest; 9.50, Warsaw; 10.0, Brussels, Italian stations; 10.30, Athlone, Paris (PTT); 10.45, Radio-Paris; 11.5, Budapest 1.

Hours of Transmission in Greenwich Mean Time.

ATHLONE (Ireland)

565 kc/s (531 m.); 100 kW. Dublin, etc., See Sunday. 1.30-3.0 p.m.-Records. 5.30-Irish Radio Orchestra. Thomas Mathews (Violin). Overture, "Figaro" (Mozart). Suite, "Mozartiana" (Tchaikovsky). 6.20-Talk; Parents, by Mab Hickman. Games for Christmas. 6.35-Irish News Feature. 6.45-News. 7.0-Scotts-Irish Music by Denis Cox and the Radio Orchestra, with Talk by Dudley Edwards: The Bruce Invasion of Ireland. 7.45-"The Closed Door"-Christmas Play (Fr. John Costello), with Art O'Murnaghan and Gerard Healy, produced by Deirdre MacDonagh. 8.5-Impressionist and Romantic Studies by Germaine Leroux, a Parisian Pianist. 8.25-Records of Bransby Williams. 8.45-Carols of All Nations-Hubert Rooney and Choir. 9.15-"Oh, those Christmas Presents," by Michael McGilligan. 9.30-Variety. 10.30-News. 11.0-National Anthem.

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 Munich. 1.0-News; Opera Preview. 2.0-3.0-Fröhlich Band, etc.; at 2.15-2.35-Markets. 3.30-Orchestra from Königsberg. 4.30-"The Turn of the Year"-Sequence (Meckel). 5.0-Fröhlich Band. 6.0-News; Topical. 6.10-Station Orchestra. Conductor: Heinrich Steiner. Schmidt (Pfte.). Festliches Vorspiel (Steinmann). Pfte. Concerto (Buddle). 6.45-Evening Echoes. 7.0-"A Garland of Melodies"-Orchestra and Records. Overture, "Die Felsenbühle" (Reissiger). Russian Dance (Bullerian). Violin: Meditation, "Thais" (Massenet). Musikanten-Suite (Geissler). Records: Four Songs by Erna Sack

TURIN GROUP (Italy)

Turin (No. 1), 1,140 kc/s (263.2 m.); 7 kW. Milan (No. 1), etc. See Sunday. Transmits at intervals from 6.45 a.m. 4.0 p.m.-News. 4.15-4.50-Bruna Stoelker (Soprano). 6.20-7.30-See Rome (No. 1). 7.30-Music. 7.40 (Rome (No. 2) only)-News (English). 8.0-See Rome (No. 1). 9.5-Talk. 9.15-Soetens (Violin). Sonata (Leclair). Sonata (Milhaud). 10.0-News. 10.15-10.55-Dance Music.

VIENNA (Austria)

592 kc/s (506.8 m.); 100 kW. Graz, etc. See Sunday. Transmits at intervals from 5.45 a.m. 4.30 p.m.-French Music by Beate Reichert (Cello) and Magda Rusy (Pfte.). Sonata (Debussy). Pastorale (Couperin - Cassado). Minuet (Debussy). La filuse (Fauré). 5.0-Burgenland Christmas Customs -Report. 5.25-English Lesson by Thomas MacCallum. 5.45-Topical Front Review. 6.0-News; Topical. 6.25 (from Graz)-"Liebesfreud-Liebesleid". 7.25-"A Towndweller visits the Country"-Sequence (Delmondo) with Rosa Pichler (Zither). 8.0-"From Gluck to Wagner"-Station Orchestra. Conductor: Schönherr. Maria Hussa (Soprano), Maikl (Tenor), Bisutti (Bass). Overture and: Aria, "Alceste" (Gluck). Bass Aria and Trio, "The Magic Flute" (Mozart). Overture and Trio, "Fidelio" (Beethoven). Ocean Aria, "Oberon" (Weber). Serenade, "The Merry Wives of Windsor" (Nicolai). Overture, "Hans Sachs" (Lortzing). Bass Song, "Der Waffenschmidt" (Lortzing). Tenor Aria, "The Barber of Bagdad" (Cornelius). Soprano Aria, "Tannhäuser"

(Wagner). Dance of the Apprentices and Procession of the Masters, "The Mastersingers" (Wagner). 9.10-News; Programmes. 9.20-A Christmas Eve in Siberia (Kreutz). 9.35-"Sunny Winter in Austria"-Competition. 9.45-10.30-Dance Band; at 9.55-News.

WARSAW (Poland)

224 kc/s (1,339 m.); 120 kW. Cracow, etc. See Sunday. Transmits at intervals from 5.15 a.m. 3.15 p.m.-Station Salon Trio. Musical Pictures (Volkman). Song without Words (Mendelssohn). Berceuse (Górzyński). Tarantella (Heller). Tango (Szpilman). Blues (Tanslan). Musical Pictures (Rybicki). 3.50-Topical; Talk. 4.15-Gusla Bulgarian Choir. 4.50-Sports Notes. 5.10-Records: Pfte. Duets and Trios. 5.30-Programmes; For Country People. 6.0-For Soldiers. 6.30-Discussion: Mother and Daughter. 6.50-Topical Talk. 7.0 (from Poznan)-The Vienna of Yesterday and To-day-Schrammel Quartet, Salon Ensemble, Vocal Quartet, Gogojewicz and Bierkowski (Songs). Overture, Fierabras (Schubert). Song (Haydn). Song: Freudvoll und Leidvoll (Beethoven). Dance (Schrammel). Ländler (Mozart). Heidenröslein (Schubert). Pfte.: Minuet (Mozart). Contredanse (Beethoven). Song: Das Veilchen (Mozart). Dance (Lanner). Serenade (Schubert); at 7.45 (approx.) News; Topical. 8.40-Literary Notes. 9.0-Symphony Music-Station Orchestra. Conductor: Fiteberg. Introductory Talk. Overture, "The Magic Flute" (Mozart). Sixth Symphony, the Pastoral (Beethoven). 9.50-10.0-News.

Dec. 21 TUESDAY

(Soprano). Spanish Serenade (Albouth). Walter Bromme Potpourri. Romance (Tchaikovsky). Waltz, Winzerfreuden (Leuschner). Records: Four Songs by Herbert Ernst Groh (Tenor). Schnekt man sich Rosen in Tirol (Zeller). Pizzicato Intermezzo (Mühr). Man singt es immer wieder (Kötscher). Waltz, Flüchtige Sekunden (Illert). Mit dir, wohin du willst (Leux). 9.0-News. 9.30-See Hamburg. 10.45-11.0-Report: The Winter Solstice Celebrations in Berlin.

BEROMÜNSTER (Switzerland)

556 kc/s (539.6 m.); 100 kW. Relayed by Basle and Berne, 1,375 kc/s (218.2 m.). 5.30-5.50 a.m.-Gym. 9.20-9.50-For Schools. 11.0-Records. 11.29 a.m.-12.45 p.m.-News; Exchange; Records. 3.25-Records: Fairy Operas. 4.0-5.0-See Sottens. 5.0-For Children. 5.30-History Talk. 6.0-Mozart Music for Wind Instruments. 6.20-Surprise Programme. 6.25-League of Nations Report from Geneva. 6.40-Announcements; News. 7.0-Tonhalle Orchestra. Conductor: Volkmar Andreae. 8.25-Talk: New English Books. 8.40-Elovard Orchestra. 9.25-9.30-News; Programmes.

BRATISLAVA (Czechoslovakia)

1,004 kc/s (298.8 m.); 13.5 kW. Transmits at intervals from 5.15 a.m. 7.25 p.m.-"Good Neighbours" Play (Julia Javorská). 8.25-Pfte. Trio in E flat (Beethoven). 8.55-10.0-See Prague; at 9.15-News (Hungarian).

BRESLAU (Germany)

950 kc/s (315.8 m.); 100 kW. Relayed by Gleiwitz and Görlitz, 1,231 kc/s (243.7 m.). Transmits at intervals from 4.30 a.m. 11.0 a.m.-1.0 p.m.-See Stuttgart. 1.0-News; Exchange. 1.15-2.0-Music from Hamburg. 2.30-Reading. 3.0-Orchestra, Rothensee (Baritone); at 4.0-4.10-Book Review. 5.0-Talk: The Christmas Goose. 5.20-Schulz (Organ). Toccata in F (Froberger). Toccata and Pastorale (Pachelbel). Ricerare in C (Pachelbel). Larghetto (Bassani). 5.40-Talk: The Threshing-machine. 5.50-Programmes; Markets. 6.0-News. 6.10-Christmas Oratorio for a cappella Choir (Thomas). 6.40-Music. 7.0-Sonatas (Beethoven) by Hattwig (Pfte.). Sonata in C minor-the "Pathetic." Sonata in A flat. 7.35-Motto. 7.45-"Henry Hudson"-Play (Schneider-Edenkoben); Music by Sczuka. Station Players and String Quartet. 9.0-News. 9.15-Political Press Review. 9.30-10.30-See Hamburg.

BRNO (Czechoslovakia)

922 kc/s (325.4 m.); 32 kW. Transmits at intervals from 5.15 a.m. 6.25 p.m.-Revuc. Station Orchestra. Jazz Band, etc. 7.25-10.0-See Prague.

BRUSSELS (No. 1) (Belgium)

620 kc/s (483.9 m.); 15 kW. 6.30-9.2 a.m.-Records; Gym; News. 12.0 noon-Records: Light Music. 12.30 p.m.-Weather; Shipping. 12.35 (approx.)-Hungarian Music-Salon Orchestra. Conductor: Féron (Pfte.) and Kovacs (Cymbalom). 1.0-News.

TUESDAY (December 21)

1.10—The "Russian Group." Conductor: Koutznetzoff.
 1.30—Belgian Music by the Salon Orchestra. Conductor: Féron.
 2.0-2.45—Art Notes; For Schools.
 4.55—News.
 5.0—Omer Orchestra; at 5.30-5.40 Honoring de Pontoise (Songs).
 6.0—Talk: The Work of Louis Lagache.
 6.15—Three Arias from "Alceste" (Gluck) by Mariette Crombez.
 6.30—Scenes from "La petite chocolatière" (Gavault).
 6.40—Bartsch (Cello). Toccata (Frescobaldi-Cassadó). Musette (Bach-Tollain). Nocturne (Faure). Pièce en forme de Habanera (Ravel). Maundy Thursday in Seville (Turina). Piece in C sharp minor (Nadia Boulanger).
 7.0—Records.
 7.30—News.
 8.0—Variety Concert—Radio Orchestra. Conductor: Gason, and Jean Tranchant in his Repertoire.
 8.45—Burton (Accordion).
 9.0—Part II, "Don Quixote"—Play (Divoire). Incidental music by Tomasi. Radio Orchestra. Conductor: Gason; and Colin Urban, Mmes Ferrières, Charmal, Beaufre, etc.
 10.0-11.0—News; Records.

BRUSSELS (No. 2) (Belgium)

932 kc/s (321.9 m.); 15 kW. Programme in Flemish.
 6.30-9.2 a.m.—Records; Gym; News.
 12.0 noon—Records.
 12.31 p.m.—Brenders Dance Band.
 1.0—News; Shipping.
 1.10—Russian Music—Salon Orchestra. Conductor: Féron.
 1.30—Records.
 2.0-2.45—For Schools.
 4.55—News.
 5.0—Salon Orchestra. Conductor: Féron.
 5.15—Records: Schumann Songs.
 5.30—Salon Orchestra.
 5.45—For Children.
 6.30—Records: Minuets. Minuet for Orchestra (Boccherini). Minuet for Pfte. (Paderewski). Minuet for Cello (Haydn). Minuet for Orchestra (Mozart). Minuet in D for Violin (Beethoven).
 6.45—Talk.
 7.0—Records. Fantasia (Benoit). O Star of Eve (Wagner). Overture, "Der Freischütz" (Weber). Intimité (Chopin). Overture, "The Secret Marriage" (Cimarosa).
 7.30—News; Talk.
 8.0—Light Orchestral. Conductor: Walpot. Stella Seemer (Songs) and the "Animato" Male Voice Double Quartet; at 8.45-9.0—Talk: Journalism.
 10.0-11.0—News; Records.

BUCHAREST (Romania)

823 kc/s (364.5 m.); 12 kW. Relayed by Radio-Romania, 160 kc/s (1,875 m.).
 Transmits at intervals from 4.30 a.m.
 4.0 p.m.—Time; Weather; Letter-box.
 4.15—Schumann Records.
 5.0—Art Review.
 5.15—Harp Quartet in E flat (Beethoven), by the Theodoresco Quartet.
 5.55—Talk: Carols.
 6.10—Old Music—Radulesco (Harpichord) and Teodoresco (Flute). Sonata in D minor (Blare). Arioso and presto (Quantz).
 6.35—Mihail Daia Vocal Quartet.
 7.5—Talk on the following Programme.
 7.15—Concerto in A (Mozart) by the Radio Orchestra. Conductor: Massini.
 8.30—News: Sports.
 8.45—Julea Orchestra.
 9.45—News (French, German).

BUDAPEST (No. 1)

(Hungary)
 546 kc/s (549.5 m.); 120 kW. Transmits at intervals from 5.45 a.m.
 11.5 a.m.—Records.
 11.30—News; Records.
 12.30 p.m.—Station Band.
 1.40—News; Band (contd.).
 3.10—For Women.
 4.0—Antal Kampis.
 4.30—Jávros Jazz Band.
 5.0—Imre Suhay.
 5.30—Sacred Music from Kelenföld Evangelical Church.
 6.35—Talk: Roger Martin du Gard, the Nobel Prize Winner.
 7.0—"Katzenmusik" Operetta (Eisemann), from Szeged.

10.10—Talk by Countess Apponyi: The Eucharistic Congress, 1938.
 10.25—Purtis Cigány Band.
 11.5—News.

BUDAPEST (No. 2) (Hungary)

359.5 kc/s (834.5 m.); 18 kW. 5.0 p.m.—Jávros Band.
 5.35—For Farmers.
 6.5—French Lesson.
 7.30—News; Records.

COLOGNE (Germany)

658 kc/s (455.9 m.); 100 kW. Transmits at intervals from 5.0 a.m.
 11.0 a.m.—1.0 p.m.—See Munich.
 1.0-2.0—News; Riddles; Markets.
 2.30—Fairytale; Markets.
 3.0—See Deutschlandsender.
 4.0—Book Review.
 4.20—Schröter (Soprano), Rummel (Pfte.).
 4.45—Talk: German S.W. Africa.
 5.0—Haas (Pfte.).
 5.20—Round the Family Table.
 5.50—Snapshot.
 6.0—News.
 6.10—Baroque and Rococo Music. Cologne Chamber Symphony Orchestra. Conductor: Kraack. Symphony in E (Frederick the Great). Concerto grosso in D (Corelli). Sinfonia in F (C. P. E. Bach). Brandenburg Concerto (Bach). Contredanse with Flute and Drums (Mozart). Symphony, La Chasse (Haydn). In the interval, Talk: Johann Sebastian Bach in German Literature.
 8.0-9.0—See Königsberg.
 9.0—News.
 9.20—Political Press Review.
 9.35—Music from Hamburg.
 10.30-11.0—Winter Solstice—Festival Programme, with a Play by Friedrich Deml.

DEUTSCHLANDSENDER (Germany)

191 kc/s (1,571 m.); 60 kW. Transmits at intervals from 5.0 a.m.
 11.0 a.m.—12.50 p.m.—See Stuttgart.
 12.50—News.
 1.0—Variety.
 2.0—Exchange; Programmes.
 2.15—Dance Records.
 2.45—Visit to a Women's Labour Service Camp.
 3.0—Light Music by the Station Orchestra. Conductor: Dobrindt; at 4.0-4.10—Topical.
 5.0—"At the Keyhole"—Sketch about Christmas Preparations.
 5.30—Records.
 5.55—Genealogy.
 6.0—Motto; News.
 6.10—German Christmas Abroad—Sequence (Aida St. Paul). Music arr. Henze.
 7.0—Barnabas von Geczy Band.
 8.0—Topical; Political Press Review.
 8.15—"From Morning to Evening"—German Folk Songs (arr. Aulich). Station Orchestra, Chamber Choir, a Children's Choir, Hildegard Erdmann (Soprano), Schindler (Tenor).
 8.45—Records of Claudio Arrau (Pfte.).
 9.0—News; Topical.
 9.30—Serenade. Scholz (Viola) and Protze (Pfte.). Fantasia (Protze). Old French Dance (Marais). Excerpt, Märchenbildern (Schumann).
 10.0-11.0—Winter Solstice Festival at the Lange Markt, Danzig (Recorded).

FRANKFURT (Germany)

1,195 kc/s (251 m.); 25 kW. Cassel, etc. See Sunday.
 Transmits at intervals from 5.0 a.m.
 11.0 a.m.—1.0 p.m.—See Munich.
 1.0—News; Records.
 2.0—Talk; Markets.
 2.15-2.45—For Children.
 3.0—Orchestra, Senia Zoebisch (Soprano).
 5.0—Topical.
 6.0—News.
 6.10—"Wir bummeln in Berlin—und drah'n in Wien"—Variety with Commentary. Choir, Orchestra. Schrammel Quartet, Soprano, Baritone, Tenor and Speaker.
 8.0—Records: Music for Fairy Tales.
 8.15—"Der letzte Traum der alten Eiche"—Sequence after Hans Andersen, to Schubert and Brahms Music. Henry Schmitt (Soprano), Meyer-Stephan (Baritone), and Schröter (Pfte.).
 9.0—News.
 9.35—See Königsberg.
 10.0—Music from Hamburg.

11.0-12.0 m't.—Serenade—Opera Records. Prelude to Act III, "La Traviata" (Verdi). Arias from: (a) "Andrea Chénier" (Giordano), (b) "Die ägyptische Helena" (Strauss), (c) "Simone Boccanegra" (Verdi). Good Friday Magic, "Parsifal" (Wagner). Excerpts, "Lohengrin" (Wagner). Duet, "Madame Butterfly" (Puccini). Sextet, "Lucia di Lammermoor" (Donizetti). Arias from "Don Carlos" and "Othello" (Verdi).

HAMBURG (Germany)

904 kc/s (331.9 m.); 100 kW. Bremen, etc. See Sunday. Transmits at intervals from 5.10 a.m.
 11.0 a.m.—Military Band, Accordion.
 12.5 p.m.—Topical.
 12.15—See Munich.
 1.0—News.
 1.15—Light Music.
 2.0—Shipping; Markets.
 2.25—Fritz Leue (Violin).
 2.50—Ice Report.
 3.0—Orchestra. In the interval, Books.
 4.15—"Hat in Hand"—Sequence about Courtesy; etc.
 5.0—"Vont Himmelsgold an uner Winachssaken"—Christmas Sequence in Dialect (arr. Dieckelmann) with Music. Station Choir, Women's Vocal Trio and Male Voice Quartet, Singers, Reciters, etc.
 5.45—Harbour Notes.
 6.0—News.
 6.10—"Christmas Wishes"—Sequence (arr. Tegmeier) with Speakers and Records.
 8.0-9.0—See Königsberg.
 9.0—News.
 9.30-11.0—Light and Dance Music with Gertrud Schnitzer (Soprano), etc.

HILVERSUM (No. 1)

(Holland)
 160 kc/s (1,875 m.); 10 kW until 2.40 p.m.; 150 kW from 2.40 p.m. Also on Lopikerkapel, 722 kc/s (415.4 m.); 17 kW from 2.40 p.m.
 KRO Programme.
 7.40-8.55 a.m.—Records.
 9.40—Records.
 11.10—Religious Address; Announcements.
 11.55—KRO Orchestra. Conductor: Reinards; at 12.40 p.m.—Records.
 1.40—For Women.
 2.42—Dressmaking Lesson.
 3.40—HIRO Programme: Records; Talks; Announcements.
 4.50—KRO Melodists. Conductor: Lustenhouwer. Klein (Refrains); at 5.25-5.40—Greetings.
 6.20—Esperanto Lesson; Announcements; Talks; News.
 7.55—Maastricht Municipal Orchestra. Conductor: Hermans. Paflzéra (Baritone).
 9.10—Records.
 9.20—KRO Orchestra. Conductor: Reinards.
 10.10—News.
 10.20—Lily Mathé and her Cigány Band.
 10.50-11.40—Records.

HILVERSUM (No. 2)

(Holland)
 995 kc/s (301.5 m.); 15 kW until 6.10 p.m.; 60 kW from 6.10 p.m.
 AVRO Programme.
 7.40-9.40 a.m.—Records.
 9.40—Service.
 9.55—Records.
 10.10—"December"—Fantasy by Pierre Palla (Organ).
 10.40—Talk: The Care of Children.
 11.10—Lyra Trio.
 11.55—Records: Light Music.
 12.40 p.m.—French Ballet Music. AVRO Orchestra. Conductor: Treep.
 1.25—Records.
 1.40—Violin Concerto (Beethoven) by van der Woude, and the AVRO Orchestra. Conductor: Treep.
 2.25—Dressmaking Lesson.
 3.25—Records.
 3.40—Rosine de Cocq (Pfte.).
 4.10—Children's Choir.
 4.40—For Children.
 5.10—Aeolian Orchestra.
 6.10—RVU Talk.
 6.40—Fairy Tale.
 6.45—Christmas Carols by a School Choir.
 7.10—English Lesson.
 7.40—News.
 7.50—Records.
 8.10—"Tuesday Night Special"—Variety. Kovacs Lajos Orchestra. AVRO Girls, Piet Muiselaar and Willy Walden.

9.55—Records.
 10.25—Topical; News.
 10.50—AVRO Dance Band.
 11.40—National Anthem.

KALUNDBORG (Denmark)

240 kc/s (1,250 m.); 60 kW. Relays Copenhagen, 1,176 kc/s (255.1 m.).
 Transmits at intervals from 6.0 a.m.
 11.0 a.m.—1.0 p.m.—Preil's Ensemble.
 1.0—Christmas Poems.
 1.30—Radio Orchestra. Conductor: Grøndahl. Manitto Klitgaard. (Songs). March (Komzák). Overture, "St. Paul" (Mendelssohn). Excerpts, "Aladdin" (Nielsen). Kamarinskaya (Glinka). Minuet (Debois). Tin Soldiers (Debois). Overture, "Boccaccio" (Suppé). Torch Dance (Jørgensen). English Songs: (a) My lovely Celia, (b) The pretty creature, (c) Londonderry Air, (d) The hundred Pipers, (e) Myself when young (Lehmann), (f) Onaway, awake beloved (Coleridge Taylor). Overture di chiesa (Grøndahl). Petite Suite (Debussy). Marie Walzer (Lanner). Polonaise (Glazunov). Overture, "Gillette de Narbonne" (Audran).
 3.30-3.50—For Children.
 4.0—Talk: Preserving the Beauty of Towns.
 4.25—Weather; Exchange; Markets.
 4.50—Songs from "Three Smart Girls"; Records.
 5.15—Talk: The Carlsberg Museum.
 5.35—German Lesson.
 5.55—Announcements.
 6.0—News.
 6.30—Talk: The Fishing Industry.
 7.0—"Juliet buys a Child"—Two-Act Play (Maura-Martinez Sierra); Trans. Bech.
 8.15—Introduction and Variations on "Ihr Blümlein alle" (Schubert) by Gilbert-Jespersen (Flute) and Volmer-Sørensen (Pfte.).
 8.35—Symphony Concert by the Radio Symphony Orchestra. Conductor: Tuxen. Andressen (Oboe). Concerto in G minor for Oboe, Strings and Harpichord (Handel). The Linz Symphony (Mozart).
 9.15—News; Weather.
 9.35—Christmas at the Asserbo Camp.
 10.0—Christmas Greetings to the Faroe Islands.
 11.0—Chimes.

LILLE (Radio PTT Nord) (France)

1,213 kc/s (247.3 m.); 60 kW. Transmits at intervals from 6.30 a.m.
 7.0 p.m.—Records.
 7.30—News; Weather.
 8.0—An Operetta with Mme and M. Rucart.
 8.30—Station Orchestra.
 10.30 (approx.)—News.
 MONTE CENERI (Switzerland)
 1,167 kc/s (257.1 m.); 15 kW. Transmits at intervals from 11.0 a.m.
 6.45 p.m.—News.
 7.0—Radio Orchestra. Conductor: Herschel. Ukrainian March (Barwinski). Pizzicato misterioso (Brusselmanns). Musical Snuff Box (Nikolajewski). Carovane (Scassola).
 7.15—Reading.
 7.30—Orchestra (contd.). Excerpts, "Aladdin" (Nielsen). The Butterfly Chase (Kéler-Béla). Overture (Czernik).
 8.0-9.0—To be announced.

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.—1.0 p.m.—See Munich.
 1.0—News; Talk; Music.
 1.55—Exchange.
 2.30—Handwork.
 2.40—Fairy-Tales and Songs.
 3.0—Orchestra.
 4.50—Ice Report.
 5.0—Calendars for 1938.
 5.15—Music for Wind Instruments. Members of the Station Orchestra and Schlenger (Pfte.). Rondo on a Street Song, for Flute and Pfte. (Ecklebe). Serenade for 13 Wind Instruments (Strauss). Divertimento for Wind Quintet and Pfte. (Juon).
 5.50—Local News.
 6.0—News.
 6.10—"The Cold Art"—Sequence about Skating (Bartels).
 6.45—Topical.
 7.0—"Christmas Fair"—Station Orchestra, Peter Arco, Börschel Band and Soloists.
 8.0—S.A. Winter Solstice Festival at the Lange Markt, Danzig.
 8.30—Danzig Provincial Orchestra. Conductor: Koschnick. Wedding March (Södermann). Ballet, "The Merry Wives of Windsor" (Nicolaï). Tanzende Müllergesellen (Rathke). Gold and Silver (Lehár). March, Aus grosser Zeit (Brobrecht).
 9.0—News.
 9.20—Political Press Review.
 9.35 (from Danzig)—Report: The Winter Solstice Festival at the Lange Markt.
 9.50-11.0—Music from Hamburg.

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.—1.0 p.m.—See Munich.
 1.0—News; Grieg Records.
 2.0—Discussion with Artists in Glass and Enamel.
 2.20—"Christmas Customs in Germany"—Sequence (Stapelberg); Music by Ambrosius.

2.50—Ice Report.
 3.0—The Dresden Soloists' Ensemble.
 4.0—Time; Markets.
 4.10—Community Singing.
 5.0—Talk; Poems.
 5.35—Report from Cracow.
 6.0—News.
 6.10—Orchestra. Conductor: Kretzschmar. Ermold (Bass). Overture, Ein Künstlerfest (Czernik). Melodie und Rhythmus (Geissler). Aria, "Don Giovanni" (Mozart). Sonne am Rhein (Hausska). Gondoliera (Ries). Legende (Kick-Kletzki). Aria, "Tsar and Carpenter" (Lortzing). Feurige Pusza (Brand). Viennese Operetta Potpourri (Hruby). Songs: (a) Die Warnung (Mozart), (b) Folk-Song (Isenmann), (c) Phyllis und die Mutter. Capriolen (Rixner). Dance Suite (Kochmann). Aria, "Der Wildschütz" (Lortzing). Concert Overture (Golwyn).
 8.0—"Round the Christmas Tree"—Christmas Festivities of the Labour Service, S.A. and Army.
 9.0—News.
 9.30-10.0—See Hamburg.

LILLE (Radio PTT Nord) (France)

1,213 kc/s (247.3 m.); 60 kW. Transmits at intervals from 6.30 a.m.
 7.0 p.m.—Records.
 7.30—News; Weather.
 8.0—An Operetta with Mme and M. Rucart.
 8.30—Station Orchestra.
 10.30 (approx.)—News.
 MONTE CENERI (Switzerland)
 1,167 kc/s (257.1 m.); 15 kW. Transmits at intervals from 11.0 a.m.
 6.45 p.m.—News.
 7.0—Radio Orchestra. Conductor: Herschel. Ukrainian March (Barwinski). Pizzicato misterioso (Brusselmanns). Musical Snuff Box (Nikolajewski). Carovane (Scassola).
 7.15—Reading.
 7.30—Orchestra (contd.). Excerpts, "Aladdin" (Nielsen). The Butterfly Chase (Kéler-Béla). Overture (Czernik).
 8.0-9.0—To be announced.

MOSCOW (No. 1) (Russia)

172 kc/s (1,744 m.); 500 kW. 5.0 p.m.—Literature.
 5.30—Concerts.
 9.0—Dutch Programme.
 10.0—Swedish Programme.
 11.0-12.0 m't.—Spanish Programme.

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.—Station Orchestra. Conductor: Mihalovic.
 12.0 noon—News.
 12.15 p.m.—Station Dance Band. Conductor: Michalski.
 1.0—News; Exchange.
 1.15—See Hamburg.
 2.0-2.30—For Children.
 3.0—Liebesliederwalzer (Brahms), Annemarie Bischof (Soprano), Marie Engelhard (Contralto), Bauer (Tenor), Romberg (Bass). Station Chamber Choir and Schmidmeier and Strom (Pftes.).
 3.40—Reading (Guido Böckler).
 4.0—Weather; Markets.
 4.15—Light Orchestral.
 5.50—Anniversaries.
 6.0—News.
 6.10—Request Concert.
 7.0—A City Idyll.
 8.0-9.0—See Königsberg.
 9.0—News.
 9.20—"Feuer spring auf!"—Sequence (Meingast); Music by Bresgen.
 10.0-11.0—Music from Hamburg.

NAPLES GROUP (Italy)

Naples, 1,104 kc/s (271.7 m.); 10 kW. Florence (No. 1), etc. See Sunday.
 6.0 p.m.—Music; Songs; Topical.
 6.25—Vocal Ensemble and Accordion Trio. Campagna di morti in ma' (Poggetti). Taranella, Pelligrini. So che ti me veu ben (Pieragostini). Paisanella. Serenata spagnola (Margutti). Napoli canta (Tagliaferri). Cansu de primmaveia (Castello-Pieragostini). Pentimento (Pezzana). Chitarra romana (Di Lazzaro).
 7.0—News.
 7.20—Talk.
 7.30—Orchestra. Conductor: Petralia.

TUESDAY (December 21)

8.5—To be announced. 8.15—German Folk Music from Berlin. 9.0—Dance Music. 10.0—News. 10.15-10.55—Dance Music.

OSLO (Norway) 260 kc/s (1,153.8 m.); 60 kW. Fredrikstad, etc. See Sunday. Transmits at intervals from 7.30 a.m. 6.30 p.m.—Records of Schneiderhan (Violin). 6.45—Talk: The Last Day at School. 7.10—Mme Amalie Christie (Pfte.). Sonata in D (Mozart). Pieces (Brahms): (a) Intermezzo in E minor, Ballad in G minor, (c) Intermezzo in E flat minor. 7.35—Reading. 8.0—Scandinavian Folk Melodies by the Station Orchestra. Conductor: Kramm. Erik Bye (Songs). 8.40—News; Topical. 9.15-10.0—Station Orchestra. Suite, "The Married Beau" (Purcell). "La chanson de Paris" (Casadesu) and "Schloss Durande" (Niemann).

PARIS (Eiffel Tower) (France) 1,456 kc/s (206 m.); 7 kW. Transmits at intervals from 6.30 a.m. 8.0 p.m.—France Brochet (Pfte.) and Yvon Le Marc'Hadour (Songs). Songs (Borodin): Pfte.: (a) Melody (Schumann-Liszt), (b) Reflets dans l'eau (Debussy), (c) Bourrée fantasque (Chabrier). Songs (Delannoy, Ladmirault). 8.30—Symphony Concert. Conductor: Rhené-Baton. Suite in D (Bach). Psyché (César Franck). Cortège et Litanies (Dupré). Melodies (Dupré). Improvisation (Dupré). Symphony (Dupré). 10.30—Records. 11.0-11.15—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; Records. Excerpts, "Mirella" (Gounod), "Les Noces de Jeannette" (Massé), Carnaval (Guiraud). 12.25 p.m.—News; Exchange; Records. 1.15—Amusements; Records. 2.0, 3.45, and 4.35—Exchange. 5.0—News; Records. 5.15—Ray Ventura. 6.0—Exchange; News. 6.10—Religious Address. 6.20—Records. 6.53—Literary Review. 6.58—Racing; Topical; Sports. 7.10—Amusements; Films; Records. 7.45—Cuban Trio. 8.0—News. 8.10—Georges de la Fouchardière and Clément Vautel. 8.15—Programme presented by Jean Loup. 8.30—"Special Edition" (Diamant-Berger). 8.45—"La bonne histoire." 8.55—News. 9.0-12.0 m't.—"Quadrille"—Play in Six Acts (Sacha Guitry), with Gaby Morlay, Jacqueline Delubac, Pauline Carton, Georges Grey and the Author.

PARIS (PTT) (France) 695 kc/s (431.7 m.); 120 kW. Transmits at intervals from 6.30 a.m. 5.0 p.m.—Deprince Orchestra. 5.45—Talks. 6.15—Talk: By Métro from the Luxembourg to Massy-Palaiseau. 6.30—Claudine Malloizel (Cello). Adagio (Vivaldi). Adagio allegro (Schumann). Prayer (Bloch). 6.45—Sonata (Beethoven) by Kurtun (Pfte.). 7.0—Topical; News. 8.0—Mlle Tant-Mieux et M. Tant-Pis. 8.25—Talk on the following Programme. 8.50 (also Alpes-Grenoble (PTT) and Marseilles (PTT))—Programme from the Opéra-Comique. After the Programme, Topical; News.

PARIS (Radio-Paris) (France) 182 kc/s (1,648 m.); 80 kW. 6.28 a.m.—Programmes; Records. 6.40—News; Gym; Records. 7.15—News; Records. 8.0-9.20—News; Programmes; Records. 10.15—Programmes; Records. 10.45—Reading; Records. 11.45—Markets; Exchange. 12.0 noon—Jewish Talk. 12.20 p.m.—Cantrelle Orchestra.

1.0—Time; News; Exchange. 1.30—Mme Victoria (Songs). 1.45—Cantrelle Orchestra. 2.0—Programmes; Talks; Markets. 2.45—Mme Dreyer (Pfte.). 3.0—Paulette Nathan (Songs). 3.15—Political Journals. 3.30—Folklore and Literature. 3.45—Markets; Exchange. 4.0—Union Internallie Concert of Bach, des Prés, Palestrina, Stravinsky, de Manziarly, Purcell, Haydn, Françaix, Dubois, Le Préger, Falla, and Buxtehude Music, and Carols—Mime de Polignac, Doda Conrad, Kiritchenko, etc., with the Paris Philharmonic Vocal and Instrumental Ensembles. Conductor: Nadia Boulanger. 5.0—Markets. 5.10—Ellis Orchestra. Fête Polonaise (Chabrier). Sarabande (Godowski). Le rouet d'Omphale (Saint-Saëns). Four Orchestral Pieces (Turina). Esquisses italiennes (Lelcu). Ballet, "Bachus" (Massenet). 6.0—Educational. 6.30—English Books. 6.45—Talk: Indo-China; Notes. 7.0—Educational. 7.30—Science Talk. 7.45—For Workers; Time. 8.0—Politics. 8.5—Foreign Affairs. 8.15—Chamber Music by Ina Marika (Pfte.) and Suzanne Peignot (Songs). 9.15—News; For Motorists. 9.30—"The Good Hope"—Four-Act Play about the High Seas (Heijermans, trans. Lemaire and Schürmann), by the Art et Travail Players; at 10.45 (approx.)—Time; News. 11.30—Programme Notes.



Exclusive "World-Radio" Picture M. Marc Darnault, one of the principals in Heijermans' great drama of the sea: "The Good Hope" (Radio-Paris, 9.30 p.m.)

PRAGUE (Czechoslovakia) 638 kc/s (470.2 m.); 120 kW. Transmits at intervals from 5.15 a.m. 4.30 p.m.—Quartet in B flat (Beethoven) by the Ondricek Quartet. 5.0—Markets. 5.10—German Christmas Carols. 5.45—News (German). 5.55—Cultural Review (German). 6.0—News; Weather. 6.10—Talk: Masaryk. 6.20—Local News. 6.25—See Brno. 7.25—"The Incendiary's Daughter"—Play (Tyl). 8.55—Record. 9.0—Time; News; Sports. 9.15—Records. 9.30—Sokol Exercises. 10.0-10.15—News (English).

RADIO-NORMANDIE (France) 1,113 kc/s (269.5 m.); 15 kW. 6.45 a.m.—Military Band. 7.0—Chansonnettes. 7.15—News; Press Review. 7.45—Physical Exercises. 8.0—Records. 8.15—Jane and John. 8.30—Light Music. 10.0—Popular Music. 10.45—Hawaiian Songs. 11.0—Records. 11.15—Light Music. 11.30—Chansonnettes. 12.0 noon—Concert. The Prisoner's Song, "The Black Tulip" (Richepin). Waltz (Margis). Polka

(Parlow). The Bum Song (Bryant). La madone aux fleurs (Vaissade). Chez le contrôleur des contributions (Bach-Laverne). L'âme des roses (de Buxeuil). Le coupeau (Botrel). L'amour de ma mie (Bosc). L'angélus de la mer (Goublier). La polka des mariages (Huard). La prière d'une vierge (Badarewska). La Savoyarde (de Buxeuil). Les fleurs c'est de l'amour (Tillymoon). Discours du Maire (Rysel). Chaloupeuse (Heintz). Vogue mon cœur (Yvain). La protestation des Chasseurs à Pied (Tournier). Reprends moi dans tes bras (Bixio). La madone des roses (Lebail). Minuet, "L'Arlesienne" (Bizet). Polka (Fatzau); at 12.45 p.m.—News.

2.0—Records. 3.0—Oliver Kimball and his Orchestra. 3.15—Light Music. 4.45—Mandoline. 5.0—Songs; Music. 5.30—Records. 6.0—Children's Corner. 6.45—Talk; News; Racing. 7.0—Waltzes. 7.25—News. 7.45—Records of Mirsha. 8.0—Records of Jeanne Aubert and Lync Clevers. 8.20—Variety. 8.40—Records of the Locatelli Orchestra. 9.0—"Un de la Canebière" (Scotti) from the Théâtre des Variétés, Paris. 11.55—News. 12.0 m't.—Midnight Melodies. 12.30-1.0 a.m. (Wednesday)—Dance Music.

RENNES-BRETAGNE (France) 1,040 kc/s (288.5 m.); 120 kW. Transmits at intervals from 6.30 a.m. 6.30—Station Orchestra. Conductor: Henderick. Overture, "William Tell" (Rossini). Symphonic Poem, Marine (Larmanjat). Ballet, "Isoline" (Messenger). 7.0—News; Weather. 7.30—Light Music from Limoges (PTT). 8.0—News; Amusements; Records. 8.15—Talk from Angers. 8.30—Bilewski Orchestra from Angers. Marche russe (Ganne). Tes yeux (Bonincontrol). En badinant (d'Ambrosio). Czardas (Michiels). Jazz. Selection, "Paganini" (Lehár). Humoresque (Dvořák). Une boîte de soldats (Siede). Sérénade à Colombine (Pierne). Jazz. Selection, "Lá-Haut" (Yvain). Nocturne (Ganne). Fleurs et Femmes (Razigade). Il court le furet (Wachs). Fête Napolitaine (Wesly). Jazz. Les Forains (Berger). L'anneau d'argent (Chaminade). The Mill in the Black Forest (Ellenberg). Les Cigarettes (Filipucci). The Blue Danube (Strauss). 10.30 (approx.)—News; Records.

ROME GROUP (Italy) Rome (No. 1) 713 kc/s (420.8 m.); 50 kW. Bari (No. 1) etc. See Sunday. Transmits at intervals from 6.45 a.m. 4.0 p.m.—Fantini (Cello) and Araldi (Pfte.). 4.50—Weather; Morse. 5.45—Medical Talk. 6.20—Dopolavoro Notes. 6.30—Light Music. 7.0—News; Talk. 7.30—Light Music. 8.0—"Il Trovatore" (Verdi) from the Opera. Conductor: Serafin. Chorus-Master: Conca. Cast: Mario Basiola, Maria Caniglia, Ebe Stignani Giacomo, Lauri Volpi, Giacomo Vaghi, Maria Huder, Nino Mazziotti, Conti, Ferracuti. In the intervals, News; Topical.

SOTTENS (Switzerland) 677 kc/s (443.1 m.); 100 kW. Relayd by Geneva, 401 kc/s (748 m.). 11.29 a.m.—Time; News; Records. 4.0—Radio Suisse romande Orchestra. Conductor: Haug. Excerpts, "Ruslan and Ludmila" (Glinka). Romance (Rubinstein). Suite pastorale (Chabrier). Ballet, "The Bartered Bride" (Smetana). Selection, "Countess Maritza" (Kálmán). 5.0—Literary Talk. 5.20—Records. 6.0—Theatre Notes. 6.10—Can History teach us? 6.20—Medical Hints for Motorists; Music. 6.50—News.

7.0—Marc Junod (Pfte.). Chromatic Fantasia and Fugue (Bach). Variations on Bach's "Weinen, Klagen" (Liszt). 7.30—"The Nativity" (Pierre Maurice) from Lausanne Cathedral. St. Cecilia's Academy Choir, Radio Suisse romande Orchestra, the "Compagnons de la Marjolaine" and Solo Voices. Conductor: Simoncini. 9.15—Film Records; "César" (Pagnol). 9.40-10.0—Song Records.

STOCKHOLM (Sweden) 704 kc/s (426.1 m.); 55 kW. Motala, etc. See Sunday. Transmits at intervals from 6.20 a.m. 5.0 p.m. (from Göteborg)—Light Music—Asti Orchestra. 6.0—News; Topical. 6.30—Radio Orchestra. Conductor: Fernström. Marie Beronita (Soprano). Excerpts, "Les petits Riens" (Mozart). Songs (Aubert, Sermyte). Excerpts, "Tsar Saltan" (Rimsky-Korsakov). Aria, "Rigoletto" (Verdi). Overture, "Oberon" (Weber). 7.25—"Summer is over"—Play (Behrman, trans. Brunius). 8.45—Weather; News. 9.0-10.0—Christmas Variety.

STRASBOURG (France) 859 kc/s (349.2 m.); 100 kW. Transmits at intervals from 6.30 a.m. 5.15 p.m.—Light Music. 6.0—Educational. 6.30—See Rennes-Bretagne. 7.0—Topical. 7.30—Light Orchestra from Limoges (PTT). 8.0—News (German, French). 8.30—Concert. Strasbourg Cathedral Choir, Conductor: Abbé Hoch, Station Orchestra, Mlle Ricklin (Soprano), Mlle Rauh (Mezzo-Soprano), Mme Debonte (Contralto), Omeyer (Tenor), Mary (Baritone), Gillig (Bass), Grégoire (Violin) and Rich (Organ). Part I. Overture, "Titus" (Mozart). Psalm for Choir and Strings (Lully). Choir, Orchestra and Singers: Excerpts, "L'Enfance du Christ" (Berlioz). Andante cantabile from the Violin Concerto in D (Mozart). Male Voice Choir: Song of Joy (Prætorius, arr. Noyon). Christmas Motet, Noël, Noël (Mouton). Old French Carol (arr. Reysz). Old French Carol (arr. Deboussé). Old Austrian Carol. Wiegenglied (Schumann). Wiegenglied (Brahms). March, "Fidelio" (Beethoven). Part II. Oratorio de Noël (Saint-Saëns). 10.30—News (French, German).

STUTTGART (Germany) 574 kc/s (522.6 m.); 100 kW. Transmits at intervals from 5.0 a.m. 11.0 a.m.—Variety Concert. 12.0 noon—News. 12.15 p.m.—Variety Concert (contd.). 1.0—Chamber Music. 2.0—Records. 3.0—See Königsberg. 5.0—Talks for Women. 5.30—Topical; at 6.0—News. 6.15—"The Sunny South"—Records. 7.0—Station Orchestra, Stuttgart Folk Music Society, Hildegard Hüfner-Grüniger (Songs to the Lute), Hofele (Baritone). 8.0—"A Silent Winter Evening"—Stories and Music (arr. Schaff). 8.40—"Brause, Feuer, brause"—A Winter Solstice Cantata (Ziegler), etc. 9.0—News. 9.15—Political Press Review. 9.30—Records: Dance and Light Music. 11.0-12.0 m't.—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.—Dance Band. 6.15—Chansonnettes. 6.40—Salon Orchestra. 6.55—News; Light Music. 7.22—Viennese Orchestra. 7.40—Popular Music. 8.0—Light Music. Excerpt, "Yana" (Richepin). Waltz, Gold and Silver (Lehár). Excerpt, "Les Gangsters du Château d'If" (Scotti). Le carillon suisse (Muzilli).

8.30—Cocktail de Danses—Fantasy. Segreto gitano (Curti). Trocadero d'amour (Curti). Mazurka (Gonletti). Confidences (Wesly). Gondolier's Song (Rusconi). 8.45—Light Music; Talk. 9.15—Maurice Saint-Paul Music by the Composer (Accordion). 10.0—News. 10.15—English Concert. 11.15—Marches; Light Music. 11.50-12.0 m't.—News.

TURIN GROUP (Italy) Turin (No. 1), 1,140 kc/s (263.2 m.); 7 kW. Milan (No. 1), etc. See Sunday. Transmits at intervals from 6.45 a.m. 4.0 p.m.—News. 4.15-4.50—La Spina (Violin). 5.45—See Rome (No. 1). 6.20—Dopolavoro Notes. 6.30—Light Music. 7.0—News; Talk. 7.30—Light Music. 7.40 (Rome (No. 2) only)—News in English. 8.0—"La signorina Jazz" (Papani). In the intervals, Talk; Notes. 10.0—News. 10.15-10.55—Dance Music.

VIENNA (Austria) 592 kc/s (506.8 m.); 100 kW. Graz etc. See Sunday. Transmits at intervals from 5.45 a.m. 3.5 p.m.—Station Band. Overture, Mignon (Thomas). Ballet Scene (Beriot). Prelude (de Micheli). Serenade (Sandauer). Erzherzog Johann Suite (Pacherwegg). Dancing with the Daffodils (Wright). Fantasia on American Tunes (Mikulas). The Three Bears (Coates). Froschballade (Sandauer). 4.0—Handwerk. 4.25—Kurt Schramek (Baritone). Come raggio di sol (Caldara). Spesso vibra per suo gioco (Scarlatti). Songs (Brahms): (a) Auf dem See, (b) Schermet, (c) An die Tauben. Songs (Cornelius): (a) In der Ferne, (b) Gedenken. Harfenspieler Songs (Wolf). 4.55—Travel in Austria. 5.10—French Lesson. 5.30—Talk: A. Günther. 5.50—Astronomy. 6.0—News. 6.10—"Song of the Furnace"—Heinrich Lersch Commemoration. 6.40—"Clothes make the Man"—(Waldau) with the Station Band. Luzzi Holzschuh, Dario Medina and Josef Wichart. 7.40—Hugo Thimig Records. 7.55—"Bäuerliche Legende"—Christmas Play (Bauer). 8.40—"Stille Nacht, heilige Nacht"—Christmas Play (Preis), with Mixed Choir, etc. 9.10—News. 9.20—"Sunny Winter in Austria"—Talk in English with Prize Competition Announcement.

9.30-10.30—Contemporary Music. Vienna Symphony Orchestra. Conductor: Breisach. Fanny Cleve (Soprano). Rhapsody (Metaxas). Hymn from "Die Bacchantinnen" (Wellesz). Musik der Fünfzehn (Heller). Hungarian Suite (Wejner). Don Juan in der Fremde (Haug). 10.30—News.

WARSAW (Poland) 224 kc/s (1,339 m.); 120 kW. Cracow etc. See Sunday. Transmits at intervals from 5.15 a.m. 3.15 p.m. (from Torun)—Wind Band. 3.50—Topical. 4.0—Chamber Music by the Warsaw Quartet. Quartet in A minor (Schumann). Lento from the Quartet in F (Dvořák). 4.50—Talk; Sports. 5.10—Letter-box; Programmes. 5.35—For Country People. 6.0—Kraszewsky Literary Programme. 6.30 (from Poznań)—Polish Choral Music. 6.50—Topical Talk. 7.0—Concert—Station Orchestra, Conductor: Górzynski, and the Radio Four. On the Zawrat (Rybicki). Two Folk Songs. Berceuse (Popiela). Mazurka (Rudnicki). Couciavic (Lada). Waltz (Adamus). Folk Songs. Mazurka (Nanylsowski); at 7.45—News; Topical. 8.15 (from Lwów)—Symphony Concert. 9.15—Records: Light Music. 9.50-10.0—News.

WEDNESDAY Dec. 22

NATIONAL

For Time Signals, see Monday.

- 10.15 a.m. (D)—Service.
- 10.30 (D)—Weather Forecast.
- 10.45—Talk on Bee-keeping.
- 11.0—Cinema Organ.
- 11.30—Light Orchestra.
- 12.15 p.m.—Records.
- 12.45—BBC Scottish Orchestra.
- 1.15—Christmas Service for City Workers, from St. Lawrence Jewry.
- 1.45—Dances.
- 2.15—Band: George Gibbs (Baritone).
- 3.0—Records.
- 3.45—Talk on Children.
- 4.0—Evensong from St. Paul's Cathedral.
- 4.50—Records.
- 5.0—Bill Campbell and his Hill-Billy Band.
- 5.30—Records.
- 6.0—The First News.
- 6.20—Farming talk.
- 6.40—From the London Theatre.
- 7.0—Billy Cotton and his Band.
- 7.45—Modern French Music.
- 9.0—The Third News.
- 9.20—Peter Dawson with Chorus and Orchestra.
- 10.0—"Folly and Mistletoe."
- 10.40—French Poetry.
- 11.0—Oscar Rabin and his Romany Dance Band.
- 11.30-12.0—Swing Records.

REGIONAL

For Time Signals, see Monday.

- 10.15-10.45 a.m. (ex. Western; Welsh 10.30)—National.
- 10.15 (Welsh)—Welsh Service.
- 10.45 (ex. Western)—Records: Excerpts from "Fidelio."
- 10.45 (Western)—National.
- 11.30 (ex. Western)—Cinema Orchestra.
- 12.30 p.m. (ex. Western)—The Song Reporter: Ian Stewart.
- 12.45 (ex. Western)—The Vagabond Lover.
- 1.0 (ex. Western, Scottish)—Familiar Poetry.
- 1.0 (Scottish)—Cookery talk.
- 1.20 (ex. Western)—Vera Canning (Cello); Arnold Goldsbrough (Organ).
- 2.0 (ex. Western)—Orchestra.
- 2.45 (ex. Western)—Cecil Turner (Pfte.).
- 3.15 (ex. Western)—Welcome Yule.
- 4.0 (ex. Western)—Light Orchestra.
- 4.30 (ex. Western)—"Aladdin."
- 5.0 (ex. Western)—Children's Hour.
- 5.0 (Western)—National.
- 6.0 (Regional, Midland)—Light Orchestra.
- 6.0 (Northern, Western)—Songs.
- 6.0 (Welsh)—Welsh talk.
- 6.0 (N. Ireland)—Accordian Band.
- 6.0 (Scottish)—Harry Laidig (Saxophone).
- 6.10 (Scottish)—Gaelic programme.
- 6.15 (N. Ireland)—Male Voice Quartet; Pipe Band.
- 6.20 (Western)—Dance Records.
- 6.20 (Welsh)—Ammanford Silver Band: Tom Daniels (Baritone).
- 6.25 (Scottish)—Mozart Allan (Cello).
- 6.40 (ex. Midland, Welsh)—Reginald Foort (Theatre Organ).
- 6.40 (Midland)—Pfte. syncopation.
- 7.0—The Second News.
- 7.20—Regional Announcements.
- 7.30 (ex. Welsh)—The World Goes By.
- 7.30 (Welsh)—Welsh News.
- 7.45 (Welsh)—BBC Welsh Septet.
- 8.0 (ex. Midland, Welsh, N. Ireland)—Variety.
- 8.0 (Midland)—"Songs from the Midland Pantomimes."
- 8.0 (N. Ireland)—Reading.
- 8.10 (Welsh)—Welsh talk.
- 8.20 (N. Ireland)—"A Tale of Two Cities."
- 8.25 (Welsh)—E. M. Prys-Jones (Mezzo); Roderick Lloyd (Bass).
- 8.30 (Regional, Northern, Western)—BBC Military Band.
- 8.30 (Scottish)—Scottish Dances.
- 8.40 (Midland)—"The Squeaker," by Edgar Wallace.
- 9.0 (ex. Midland, Northern, Western)—"The Erring Under-Secretary," by Francis Beeding.
- 9.0 (Northern)—Flippant Fingers.
- 9.0 (Western)—D. Cecil Williams (Organ).
- 9.15 (Northern)—"Guinea for the Ghost," Maurice Horspool.
- 9.45 (Western)—Western Poets.
- 10.0—News Summary.
- 10.25 (ex. Western; Midland, Scottish 10.45)—Dance Band.
- 10.25 (Midland)—Reading.
- 10.30 (Scottish)—Evening Worship.
- 11.30 (ex. Western)—Late News Summary. 11.40-12.0—Records.

Hours of Transmission in Greenwich Mean Time.

ATHLONE (Ireland)

- 565 kc/s (531 m.); 100 kW. Dublin, etc. See Sunday.
- 1.30-3.0 p.m.—Records.
- 5.30—Irish Radio Orchestra. Potpourri, Fifty Years of Song (Kennett). Selection, "The Dollar Princess" (Fall). Waltz, Dancing Nights (Coates).
- 6.0—"Oidhche sa Tshairne"—Play in Irish (H. Sadleir), presented by An Comhar Dramuiochtha.
- 6.35—Irish News Feature.
- 6.45—News.
- 7.0—"Santa Claus says No"—A Christmas Fantasy (Sean Crawford and McCann).
- 7.40—German and English Christmas Songs sung by Eileen MacCarthy.
- 7.55—Dublin Metropolitan Garda Ceilidhe Band.
- 8.10—Programme from the Gate Theatre, Dublin.
- 8.20—Dublin-Belfast Joint Variety Programme.
- 9.0—Scherzo Vocal Trio.
- 9.15—Thornton and Earls (Entertainers).
- 9.30—Variety.
- 10.30—News.
- 11.0—National Anthem.

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 Stuttgart.
- 1.0 p.m.—News.
- 1.15-3.0—Orchestra; at 2.15-2.35—Markets.
- 3.30—A Poetical Journey through the World of Snow (arr. Linden).
- 4.0—String Quartet in E flat (Beethoven) by the Havemann Quartet.
- 4.35—"In the gloaming"—Songs and Music.
- 5.0—Adalbert Lutter Band.
- 6.0—News.
- 6.10—Children's Xmas Records.
- 6.45—Evening Echoes.
- 7.0—Italian Opera Records.
- 7.50—"Twinkling Pennants"—A Radio Ballad (Karrasch), Music by Gronostay (Recorded).
- 9.0—News.
- 9.30-11.0—See Breslau.

BEROMÜNSTER (Switzerland)

- 556 kc/s (539.6 m.); 100 kW. Relayed by Basle and Berne, 1,375 kc/s (218.2 m.).
- 1.30-5.50 a.m.—Gymnastics.
- 11.0—Orchestra. Conductor: Gilbert.
- 11.30—Time; News.
- 11.40 a.m.-12.45 p.m.—Zürich Radio Orchestra.
- 3.0—Reading.
- 3.25—Orchestral Records.
- 4.0—17th and 18th Century Italian Music.
- 4.0—Chamber Music for Children—Records.
- 5.0—For Children.
- 5.50 till Close—From Basle.
- 5.50—Talk: The Christmas Candle.
- 6.0—Time; Announcements.
- 6.15—Records: Light Music.
- 6.30—Interview.
- 6.45—News; Ländler Records.
- 7.10—"Mi Dörfl"—Dialect Pictures.
- 7.55—Book Review.
- 8.10—Swiss Folk-Songs and Dances for Christmas, the New Year and Twelfth Night (arr. Moser).
- 9.20 (approx.)—Tourist Report.
- 9.30-9.35—News; Programmes.

BRATISLAVA

- (Czechoslovakia)
- 1,004 kc/s (298.8 m.); 13.5 kW. Transmits at intervals from 5.15 a.m.
- 6.25 p.m.—"Strike"—Play (Joh. Goethe, trans. Greza).
- 6.55-10.0—See Prague; at 9.15—News (Hungarian); Record.

BRESLAU (Germany)

- 950 kc/s (315.8 m.); 100 kW. Relayed by Gleiwitz and Görlitz, 1,231 kc/s (243.7 m.). Transmits at intervals from 4.30 a.m.
- 11.0 a.m.—Light Orchestra.
- 1.0 p.m.—News.
- 1.15-2.0—Records: Light Music.
- 2.30—Fairy Play.
- 3.0—See Deutschlandsender; at 4.0-4.10—Book Review.
- 5.0 (from Görlitz)—"Leuchtet, ihr Sternlein!"—Christmas Sequence (arr. Words). Members of the Görlitz Theatre, a Children's Choir, Recorder Ensemble, etc.

- 5.40 (from Görlitz)—Talk: Martin Opitz.
- 5.55—Markets.
- 6.0—News.
- 6.10—German Opera Music—Station Orchestra. Conductor: Prade.
- 7.40—Talk: The German Race.
- 8.0—Motto; Sound News.
- 8.25 (from Gleiwitz)—Light and Dan. Music. Station Orchestra, etc. Conductor: Gielnik.
- 9.0—News.
- 9.15—Interlude.
- 9.30-11.0 (from Gleiwitz)—Light and Dance Music (contd.).

BRNO (Czechoslovakia)

- 922 kc/s (325.4 m.); 32 kW. Transmits at intervals from 5.15 a.m.
- 4.40 p.m.—German Transmission: Talk with Records: Opera Production; Literary Report.
- 5.15—News; French Books.
- 5.35—For Workers.
- 5.45-6.55—See Prague.
- 6.55—Talk; Record.
- 7.25—"The Child"—Christmas Play (Fagula).
- 8.10-10.0—Programme from Prague.

BRUSSELS (No. 1)

- (Belgium)
- 620 kc/s (483.9 m.); 15 kW.
- 6.30-9.5 a.m.—Records; Gym; News.
- 12.0 noon—Variety Records.
- 12.30 p.m.—Weather; Shipping.
- 12.35—Radio Orchestra. Conductor: Gason. Belgian Music.
- 1.0—Topical; News.
- 1.10—Radio Orchestra. Conductor: Gason. Italian Music.
- 1.30—Variety Records.
- 2.0-2.25—Art Notes; For Schools.
- 4.55—News.
- 5.0—Forgotten Music and Unfamiliar Poems—Records and Reading—Wellington's Victory (Beethoven). Poems (Gautier, de Nerval, Bertrand). Hungarian War March (Liszt).
- 5.30—Talk: Dialect Literature.
- 5.40—Sonata in C minor (Beethoven) by Zeltman (Pfte.).
- 6.5—Record: Overture in D (Handel).
- 6.15—Radio Orchestra. Conductor: Gason. Overture, "Fingal's Cave" (Mendelssohn). Suite variée (Pierné). Suite, "L'Arlesienne" (Bizet). Waltz, Transactions (Strauss). Ballet, "Ascanio" (Saint-Saëns).
- 7.0—Reviews: (a) For Ex-Servicemen, (b) Periodicals, (c) Aviation.
- 7.15—Records of Lugo (Tenor).
- 7.30—Topical; News.
- 8.0—I.N.R. Symphony Orchestra. Conductor: Dejoncker, Suzanne Tricot (Songs), Crabbe (Baritone). English Scenes (Bantock). Baritone: Arias, "Alexander's Feast" (Handel), "Acis and Galatea" (Handel), "Dinorah" (Meyerbeer). Overture, "La Cenerentola" (Rossini). Invitation to the Waltz (Weber-Berlioz). Songs (Lekeu, De Boeck, Brumagne). Prelude, "Lohengrin" (Wagner). Overture, "Carnaval Romain" (Berlioz). Songs (Leroux, Dubois, Knops). Symphony in E flat (Mozart).
- 10.0—Topical; News.
- 10.10-11.0—Records of Modern Composers. String Quartet (Milhaud). Concertino de Printemps for Violin (Milhaud). Suggestion diabolique (Prokofiev). Deuxième conte de la vieille grand'mère (Prokofiev) with the Composer (Pfte.). Histoire du soldat (Stravinsky).

BRUSSELS (No. 2)

- (Belgium)
- 932 kc/s (321.9 m.); 15 kW. Programme in Flemish.
- 6.30-9.5 a.m.—Records; Gym; News.
- 12.0 noon—Chaliapin Records.
- 12.30 p.m.—Schnyders Orchestra.
- 1.0—Shipping.
- 1.10—Orchestra (contd.).
- 1.30-2.0—Records.
- 4.55—News; For Children.
- 6.0—Schnyders Orchestra, Courte (Viola); at 6.15-6.30—Talk.
- 6.45—Book Review.
- 7.0—Marthe Roland (Songs).
- 7.20—Records: Romance in F (Beethoven), by Thibaud (Violin).
- 7.30—Flemish Tourist Report.
- 8.0—"Black Violets" (Chopin-Fob). I.N.R. Orchestra and Choir, etc. Conductor: Walpot.
- 8.45—Jan Oleslayers.
- 9.0—"Black Violets" (contd.).
- 10.0—Topical; News.
- 10.10—Poems (Gezelle).

- 10.30-11.0—Records. Clarinet Quintet (Bliss) by the Griller String Quartet, Thurston (Clarinet) and Cyril Smith (Pfte.).

BUCHAREST (Romania)

- 823 kc/s (364.5 m.); 12 kW. Relayed by Radio-Romania, 160 kc/s (1,875 m.). Transmits at intervals from 4.30 a.m.
- 4.0 p.m.—Time; Weather.
- 4.2—Romanian Music—Giurgea Orchestra.
- 5.20—Lecture-Recital: Music of the Renaissance.
- 6.20—Song Records.
- 6.55—Romanian Songs (Montia, Brailoiu, Vulpesco-Castrisan and Vasiliu) sung by Lisette Dima.
- 7.15—Educational.
- 7.30—Sonata in D (Beethoven) by Andrico (Pfte.) and Cocea (Cello).
- 7.55—Popesco and Théodoresco (Flutes). Duo in D (Kuhlau). Fantasia (Doppler).
- 8.30—News; Sports.
- 8.45—Marco Orchestra.
- 9.45—News (French, German).

BUDAPEST (No. 1)

- (Hungary)
- 546 kc/s (549.5 m.); 120 kW. Transmits at intervals from 5.45 a.m.
- 11.5 a.m.—Orchestra; at 11.30—News.
- 12.30 p.m.—Pfte., Violin.
- 1.40—News.
- 3.15—For Schools.
- 4.0—Talk: The Eucharistic Congress.
- 4.30—Records.
- 4.55—Talk with Records.
- 5.30—Laci Kolompár Cigány Band.
- 6.30—From the State Opera.
- 10.0—News (French, Italian).
- 10.10—Gutenberg Dance Band.
- 11.5—News.

BUDAPEST (No. 2)

- (Hungary)
- 359.5 kc/s (834.5 m.); 18 kW.
- 5.50 p.m.—Italian Lesson.
- 7.0—News; Records.
- 8.40—Station Orchestra.

COLOGNE (Germany)

- 658 kc/s (455.9 m.); 100 kW. Transmits at intervals from 5.0 a.m.
- 11.0 a.m.—See Stuttgart.
- 1.0 p.m.—News.
- 1.15—Chamber Music.
- 2.0—Carols by Children.
- 2.30—Humorous Anecdotes.
- 2.45—Industrial News.
- 3.0—Genealogy.
- 3.30—Talk: Christmas Customs.
- 3.40—Station Orchestra. Conductor: Eysoldt. Ferraresi (Violin). Præludium (Järfelt). Kleine Begebenheit (Rust). Suite der Freude (Huppertz). Czardas (Kowalski). Excerpts, "Louise" (Charpentier). Verherrlichung (Alibout). Waltz, Königsinder (Löhr). Ave Maria (Schubert). Forest Voices (Paganini). Serenade, Jugendliebe (Alex). Musikalische Erinnerungen (Lehar). Entry March of the Boyards (Halvorsen). Romance (Plank). Das Märchen vom Pagen und der Königstochter (Spies). Souvenir (Drda). Rokoko (Schütt). Tarantelle (Culotta); at 4.50-5.0—Poems (Wiprecht).
- 5.30—Talk: Necessities.
- 5.50—Snapshot.
- 6.0—News.
- 6.10—Records: Light Music.
- 7.0—"The Soldier's Christmas"—Regimental Festival.
- 8.0—Dance Music.
- 9.0—News.
- 9.30-11.0—See Breslau.

DEUTSCHLANDSENDER

- (Germany)
- 191 kc/s (1,571 m.); 60 kW. Transmits at intervals from 5.0 a.m.
- 11.0 a.m.—Police Band from Danzig.
- 12.50 p.m.—News.
- 1.0—Records and Jäger Band.
- 2.0—Exchange; Programmes.
- 2.15—Operetta Records.
- 2.45—A Story.
- 3.0—Station Orchestra and Sala (Trautonium); at 4.0-4.10—A Story.
- 5.0—Old Christmas Carols, by Emmi Leisner.
- 5.25—Records: Light Music.
- 5.45—Talk.
- 6.0—Motto; News.
- 6.10—Waltzes and Marches. Station Orchestra and Military Band.
- 8.0—Topical Talks.
- 8.15—"When Day is done"—Kaufmann Band and Krüger-Lorenzen.
- 9.0—News; Topical Talks.
- 9.30-9.45—Serenade (Beethoven).
- 10.0-11.0—von Geczy Band.

FRANKFURT (Germany)

- 1,195 kc/s (251 m.); 25 kW. Cassel, etc. See Sunday. Transmits at intervals from 5.0 a.m.
- 11.0 a.m.—See Stuttgart.
- 1.0 p.m.—Time; News; Records.
- 2.0-2.15—Industrial Notes.
- 3.0—Light Orchestra.
- 4.30—Julius Weismann Recital. Hedwig Schöning-Weismann (Soprano) and the Composer (Pfte.). Songs: (a) Schläfiel, (b) Spanish Folk Song, (c) Sommer, Pfte. Pieces. Songs: (a) In der Fremde, (b) Am Heiligenbild, (c) Der Hufschütz, Pfte.: Sommerland. Songs: (a) Elfe, (b) Nachtigallen, (c) Der Schalk.
- 5.0—Topical Talks.
- 6.0—Time; News.
- 6.10—Station Orchestras, Conductors: Moritz and Hauck. Emma von Georgi (Soprano), Ganther (Tenor), Gonszar (Baritone). Overture and Aria, "Hans Heiling" (Marschner). Prelude to Act II, "Ingweide" (Schillings). Excerpts, "Carmen" (Bizet). Ballad (Milenz). Excerpts from "Der Wildschütz" (Lortzing), "Mignon" (Thomas) and "The Bartered Bride" (Smetana). Rondo (Lang). Selection, "Hansel and Gretel" (Humperdinck). Melody and Rhythm (Geissler). Excerpts, "Princess Neretti" (Dostal). Comedy Overture (Strecke). Don Juan's Serenade (Tchaikovsky). Russian Dances (Bullerian). Duet, "Zauberin Lola" (Künneke). March, Boccaccio (Suppe).
- 8.15—A Christmas Legend of the Black Forest.
- 9.0—Time; News.
- 9.20—Comrade, where are you?
- 9.30—Light and Dance Music. Station Orchestra and Schmid-Berikoven (Tenor).
- 11.0-12.0 n't.—See Stuttgart.

HAMBURG (Germany)

- 904 kc/s (331.9 m.); 100 kW. Bremen, etc. See Sunday. Transmits at intervals from 5.10 a.m.
- 11.0 a.m.—Light Orchestra.
- 12.5 p.m.—Topical.
- 12.15—See Stuttgart.
- 1.0—News.
- 1.15—Music.
- 2.0—Shipping; Markets.
- 2.25—Records: "Tsar and Carpenter" (Lortzing).
- 2.50—Ice Report.
- 3.0—Orchestra and Band. Reports in the intervals.
- 5.0—Discussion: The Journeyman Artisan.
- 5.15—Sonata in A minor (Schubert) by Schröter (Pfte.).
- 5.40—Talk: The Nation's Food.
- 6.0—News.
- 6.10—"Das Christelflein" (Pfitzner). Station Orchestra and Women's Choir, Conductor: Röder. Carla Spletter (Soprano), Jakschat (Bass-Baritone), etc.
- 8.10—Classical Dances—Records. Hungarian Rhapsody (Liszt). Nocturne, "Coppelia" (Delibes). Mazurka, "A Life for the Tsar" (Glinka). Polonaise in E flat (Dvořák). Waltz, "The Veil of Pierrette" (Dohnanyi). Ballet, "Frau Luna" (Lincke). Waltz, Accelerationen (Strauss).
- 9.0—News.
- 9.20—Book Review: Georg Ritter von Schönerer, the Father of Political Antisemitism.
- 9.30-11.0—See Frankfurt.

HILVERSUM (No. 1)

- (Holland)
- 160 kc/s (1,875 m.); 10 kW until 2.40 p.m.; 150 kW from 2.40 p.m. Also on Lopikerkapel, 722 kc/s (415.4 m.); 17 kW from 2.40 p.m.
- NCRV Programme.
- 7.40 a.m.—Bible Reading; Meditation; Records: Sacred Music.
- 8.10—Records; at 9.10, Greetings.
- 10.10—Religious Programme.
- 10.40—Records.
- 10.55—Van der Horst Ensemble.
- 11.40—News.
- 11.55 (approx.)—Mlle Boelsma (Contralto), v. Munster (Tenor), and Patist (Pfte.).
- 12.40 p.m.—Records.
- 12.55—Van der Horst Ensemble.
- 2.10—Records; at 2.40, Bible Reading.
- 3.25—Sacred Songs by de Heer (Songs) and Verver (Violin).
- 4.25—Greetings; For Children.
- 5.25—Records; Talks; News; Recitation; Report.
- 7.40—News.
- 7.55 (approx.)—Christmas Oratorio (Bach) by the Excelsior Choir, the Residentie Orchestra, etc. Conductor: Wagenaar; at 9.20, Talk.
- 10.20—News; Gymnastics.
- 10.40-11.40—Records; Bible Reading.

HILVERSUM (No. 2)

(Holland)
995 kc/s (301.5 m.); 15 kW until 6.10 p.m.; 60 kW from 6.10 p.m.
VARA Programme.
7.40 a.m.—Records.
9.10—Talk.
9.40—VPRO Religious Programme.
10.0—Records; Talk (Recorded); Light Music by the Fantasia. Conductor: Walis.
11.10—For the Unemployed.
11.40—Records.
12.10 p.m.—Jong (Organ).
12.55-1.25—The Lucky Birds. Conductor: Vogel.
1.40—Dressmaking Lesson.
2.10—For Women.
2.40—For Children.
5.10—VARA Orchestra. Conductor: de Groot.
6.15—Record; Talk.
6.40—Tiggers (Songs).
7.10—VPRO Talk.
7.40—News.
7.55—Play.
9.10—de Klijn (Violin), Hofman (Songs), and Rossican and Schoute (Pftes.).
9.40—News.
9.45—Bel Canto A-capella Choir of Amsterdam. Conductor: Vranken.
10.40-11.40—Concert. VARA Orchestra. Conductor: de Groot; "Fantasia," Conductor: Walis, and "The Lucky Birds," Conductor: Vogel, etc.

KALUNDBORG (Denmark)

240 kc/s (1,250 m.); 60 kW. Relays Copenhagen, 1,176 kc/s (255.1 m.).
Transmits at intervals from 6.0 a.m.
11.0 a.m.-1.0 p.m. — Preil's Ensemble; at 11.50 — Reading (Stefansson).
1.40—Inga Jacobsen (Brahms, Wolf and Marx Songs).
2.0—Julian Orchestra.
3.30-3.50 — Programme for Children from Kiruna, Lapland.
4.0—Talk.
4.25—Weather; Exchange; Markets.
4.50 — Records: "Countess Maritza" (Kálmán).
5.15—Talk: Our Winter Birds.
5.35—French Lessons.
5.55—Wireless Notes.
6.0—News.
6.30 — Talk: The Abyssinian Mission.
7.0—Dialogue.
7.10—Operetta Music. Radio Orchestra, Conductor: Grøndahl. Overture, "The Gipsy Baron" (Strauss). Ballet, "La belle Hélène" (Offenbach). Selection, "Mam'zelle Nitouche" (Hervé). Overture, "La Mascotte" (Audran). Serenade and Waltz, "Molboerne" (Jespersen). Selection, "The Merry Widow" (Lehár).
7.55—Talk: Catullus, Horace and Ovid.
8.25—Old Christmas Music. Radio Orchestra, Conductor: Grøndahl. Ellinor Rathlau Berg (Mezzo-Soprano). Christmas Pastorale (Heinichen). Cantata, Ein kleines Kindelein (Tunder). Christmas Concerto in G minor (Corelli).
9.0—News; Weather.
9.20—Film Music by Louis Preil's Ensemble. Sorensen (Songs).
10.0—Christmas Greetings to the Faroe Islands.
11.0—Chimes.

KÖNIGSBERG (Heilsberg)

(Germany)
1,031 kc/s (291 m.); 100 kW. Relayed by Danzig, 1,303 kc/s (230.2 m.).
11.0 a.m.-1.0 p.m.—See Stuttgart.
1.0 p.m.—News; Talk; Music.
1.55-2.0—Exchange.
2.30—Practical Hints.
2.40—For Girls.
3.0—Light Orchestral; at 3.50 — Talk.
4.50—Ice Report.
5.0—Chamber Music.
5.50—Local News.
6.0—News.
6.10—Lortzing Opera Records.
6.45—Topical Talk.
7.0—Variety Programme.
8.0—Station Orchestra, Conductor: Wilcken. Overture, "The Queen's Kerchief" (Strauss). Waltz, Irrlichter (Hampf). Peasant Suite (Ailbott). Excerpts, "Paganini" (Lehár). Humoresque and Serenade (Wilcken). Spanish Suite (Börschel).
9.0—News; Reading.
9.35-11.0—Wind Band

LAHTI (Finland)

166 kc/s (1,807 m.); 150 kW. Relays Helsinki, 895 kc/s (335.2 m.).
Transmits at intervals from 6.5 a.m.
3.0 p.m.—Records. Excerpts, "La Traviata" (Verdi). Intermezzo (Provost). In a Persian Market (Ketelbey). Serenade (Drigo). Piece (Hubay). Waltz, Toujours ou jamais (Waldteufel). La Paloma (Yradier). Pftc. Pieces. Carmencita (Taube). Foxtrot (Godinsky).
3.50—Children's Letter-box.
4.0—For Children.
4.50—News (Finnish, Swedish).
5.15—For Mothers.
5.30—Pia Ravenna (Songs), Gerda Weneskoski (Pftc.).
5.50—Report.
6.30—Talk.
7.15—Finnish Music—Radio Orchestra, Conductor: Linko.
7.45—News (Finnish, Swedish).
8.10-10.0—Light Music.



Inge Vesten, light soprano, who frequently takes part in the German variety programmes. (Leipzig, 6.10 p.m.)

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.—Military Band.
12.0 noon—Time; News.
12.15 p.m.—See Stuttgart.
1.0—Time; News; Exchange.
1.15 (approx.)—Records: Light Music.
2.5—Book Review.
2.25—Chamber Music.
2.45—Science and Progress.
3.0—See Deutschlandsender; at 4.0-4.10 — Time; Industrial Notes.
5.0—Talk: Christmas in the Forest.
5.15—Music.
5.30—Talk: Paul Fleming.
5.50—Topical Talks.
6.0—News.
6.10—"Der Nussknacker tanzt"—Scenes and Songs from an Animated Toy Shop (Albrecht-Hahn).
7.0—Christmas Concert from a Woolen Mills.
8.0—Marches by a Military Band.
9.0—News.
9.30-11.0—Light and Dance Music by the Fricke Band.

LILLE (Radio PTT Nord)

(France)
1,213 kc/s (247.3 m.); 60 kW. Transmits at intervals from 6.30 a.m.
7.0 p.m.—Talk in English.
7.15—Records; For Gardeners.
7.30—News.
8.0—"Chance et Succes"—One-Act Play (Brosses).
8.30 (also Toulouse (PTT) and Limoges (PTT)) — From the Opéra, Paris. After the Opera, News.

MONTE CENERI

(Switzerland)
1,167 kc/s (257.1 m.); 15 kW. Transmits at intervals from 11.0 a.m.
4.0-5.0 p.m.—See Beromünster.
6.15—Gym; Records.
6.45—News.
7.0—Anny Annibali (Italian Songs).
7.35-8.50 — "Hannele" — Play. (Gerhard Hauptmann, trans. Olga Gofala); Incidental Music by Arnaldo Filippello—Ticinense Children's Choir.

MOSCOW (No. 1) (Russia)

172 kc/s (1,744 m.); 500 kW.
5.0 p.m.—Talk.
5.30—Literature.
6.0—Concert.
9.0—French Programme.
10.0—German Programme.
11.0-12.0 m't. — Spanish Programme.

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.—See Stuttgart.
1.0 p.m.—News; Exchange.
1.15—See Hamburg.
2.0-2.30—For Children.
3.0—Sonatas (Geminiani, Reger) by von Beckerath ('Cello), Ammy Braun (Pfte.).
3.40—Report: Iceland's Volcanoes.
4.0—Time; Weather; Markets.
4.15—Records: Orchestra, Band, Tenor, etc.
5.45—German for Germans.
6.0—Time; News.
6.10—Old and New Marches.
7.10—Chamber Music on Records. Elsa Scheidhacker (Soprano), Besemfelder (Songs to the Lute), Milly Berber (Violin), etc.
8.0—Christmas—Literary and Musical Sequence (arr. Würzbach). Station Chamber Orchestra, Fiedler and Holten (Speakers). Excerpts, "Lucio Silla" (Mozart). Reading (Beckhart). Excerpt, "The Christmas Oratorio" (Bach). Weihnachtsgedichte (Fischer). Festival Suite (Fischer); "Christmas on the Battle Field"—Excerpts from War Letters. Festival Overture (Handel). Die Mitternachtslocke (Nietzsche). Excerpts, Water Music (Handel).
9.0—Time; News.
9.20 (from Nürnberg)—Chamber Music. Else Baumann (Contralto), Anita Portner (Violin), Laura Gagstetter (Pfte.), Songs (Breve). Sonatina in D (Schubert). Songs. Sonatina in F (Dvořák).
10.0-11.0—Station Dance Band, Elisabeth Engelhardt (Songs).

NAPLES GROUP (Italy)

Naples, 1,104 kc/s (271.7 m.); 10 kW. Florence (No. 1), etc. See Sunday.
6.0 p.m.—Music; Songs; Topical.
6.25—Records.
7.0—Time; News.
7.20—Government Notes.
7.30—Opera Music. Conductor: Previtali.
8.30—Reading.
8.50—Songs of Youth—Children's Choir. Conductor: Consoli; followed by Dance Music.
10.0—News.
10.15-10.55—Dance Music.

OSLO (Norway)

260 kc/s (1,153.8 m.); 60 kW. Fredrikstad, etc. See Sunday.
Transmits at intervals from 7.30 a.m.
5.56 p.m.—News; Announcements.
6.40—Accordion.
7.0—Talk.
7.25—Station Orchestra. Conductor: Kramm.
8.25—Recitation.
8.40—News; Topical.
9.15-10.0—Operetta Music.

PARIS (Eiffel Tower)

(France)
1,456 kc/s (206 m.); 7 kW. Transmits at intervals from 6.30 a.m.
8.0 p.m.—Suzanne Berthon (Pfte.), Cathelat (Songs). Four Bergerettes (Weckerlin). Pfte.: (a) Two Sonatas (Scarlatti), (b) La ronde des lutins (Liszt), (c) Remembrance (Vasseur), (d) Etude in forme de valse (Saint-Saëns). Songs (d'Olonne).
8.30 (also Bordeaux - Lafayette, Montpellier (PTT) and Lyons (PTT)) — Molière Programme from the Comédie Française, presented by Edmond Sec: (a) "Georges Dandin"—Three-Act Play; (b) "Le Médecin malgré lui"—Three-Act Play.
10.30—Records.
11.0-11.15—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; Records.
12.25 p.m.—News; Exchange; Records.
12.55—Interlude.
1.15—Amusements; Records.
2.0, 3.45, and 4.35—Exchange.
5.0—News; Records: Pathetic Symphony (Tchaikovsky), Siegfried Idyll (Wagner).
6.0—Exchange; News.
6.10—Jewish Programme.
6.20—Fauré and Schubert—Song Records.
6.50—Talk: The Largest Cinema.
6.58—Racing; Topical; Sports.
7.10—"Detective."
7.14—Amusements; Records of Maurice Chevalier.
7.45—Lecocq Records.
8.0—Topical.

WEDNESDAY (December 22)

8.10—Germaine Sablon's Song of Songs.
8.15—"La Renaissance de l'année."
8.45—Talk.
8.50—"La bonne histoire."
9.0—News.
9.10—Max Regnier and Company.
9.55—News.
10.10—"Follow the Guide"—The Louvre (Diamant-Berger), with Marguerite Morino, Balder, Kubnik, and Claude Dauphin, etc.
10.30-11.0—Sheherazade Cabaret.

PARIS (PTT) (France)

695 kc/s (431.7 m.); 120 kW. Transmits at intervals from 6.30 a.m.
2.30 p.m.—Concert for the Blind. In the interval—"The Violin Lesson"—Sketch, with Berthe d'Yd, Paul Castan, the Leoni Cigány Band, etc.
4.0—Reading; Talk: Travel.
4.30—Yvonne Weltz (Harpichord); Record; Science Talk.
5.0—Francisco Alfonso (Guitar).
5.15—"The Adoption"—Dialogue (Frapié); Record; Talks.
6.0—Educational.
6.30—Christmas Carols. The Amicitia Choir and Orchestra: Conductors: Cohen and Mme Samuel. Germaine Cernay (Songs), Duruffé (Organ). Nativité (Haudebert). Carillonners de Noël (Busser). Messe de Noël (Busser).
7.0—Radio Journal; News.
8.0—"Le pied de la table vous parle"—Fantasy (Clérouc).
8.30—French Operetta Gala—Offenbach to the Present Day. Choir and Orchestra, Conductor: Gressier. Edmé Favart, Renée Camia, Bourdin, Maquaire, etc. (Songs). Excerpts, "Orpheus in the Underworld" (Offenbach), "La vic parisienne" (Offenbach), "La Roussette" (Hervé), "Le petit Duc" (Lecocq), "Les Mousquetaires au Couvent" (Varney), "La Mascotte" (Audran), "L'Amour masqué" (Messager), "L'Etoile" (Chabrier), "La Haut" (Yvain), "Ta Bouche" (Yvain), "Bouche à bouche" (Yvain), "Phi-Phi" (Christiné), "Malvina" (Hahn), "Ciboulette" (Hahn), "Le Diable à Paris" (Lattès), "Moi-neau" (Beydts), "La Poule noire" (Rosenthal), and "Coups de roulis" (Messager).
10.30—Radio Journal; News.
10.45—Records. Symphonic Poem, Russia (Balakirev) by the London Philharmonic, Conductor: Sir Hamilton Harty.
11.0—U.S.A. Bulletin.

PARIS (Radio-Paris)

(France)
182 kc/s (1,648 m.); 80 kW.
6.28 a.m.—Programmes; Records.
6.40—Time; News; Gym; Records.
7.15—News; Offenbach Records.
8.0—News; Programmes.
8.35-9.20—For Women; Records.
10.15—Programme Notes.
10.20—Ronsard in Music—Records.
10.30—Records: Romantic Music.
10.45—A Story (Prévost).
11.0—Records.
11.45—Markets.
12.0 noon—Garde Républicaine Band. Conductor: Dupont.
1.0 p.m.—Time; News; Exchange.
1.30—Tremblay (Songs).
1.45—Band (cont'd).
2.0—Programme Notes.
2.5—Music Talk by Wanda Landowska.
2.15—Talk; Exchange; Markets.
2.45—Simone Jascont (Pfte).
3.0—Paulette Couty (Songs).
3.15—Science Talk.
3.30—"La Confidante"—Sketch (Suzanne Albert and Guillaume and Suzette Desty) by the Authors.
3.40—Humorous Press Review.
3.45—Exchange; Markets.
4.0—Jeanne Guionie (Songs).
4.15—Odette Gartenlaub (Pfte.).
4.30—Books; Exchange; Markets.
5.0—Giardino Orchestra. Overture, "Mozart" (Hahn). Valse des Brunes (Ganne). L'été (Chaminade). L'automne (Chaminade). Mosaïque provençale (Serings). Selection, "The Tales of Hoffmann" (Offenbach). Florentine Serenade (Godard). Mascarade (Lacomé).
6.0—Educational Talk.
6.30—Lecture-Recital by Georges Ricou: The History of French Opera: The Dress Rehearsal of Debussy's "Pelléas et Mélisande."
7.30—Talk: Eccentric Literature.
7.45—Talk: French Poetry from Villon to Chénier.
7.59—Time; Political Review.
8.8—Foreign Affairs.

8.15—Talk for Girls.
8.30—Beethoven Sonatas by Maréchal ('Cello) and Février (Pfte.). Sonata in C. Sonata in D.
9.0—"Les médecins humoristiques"—Sequence with Music, presented by Bonnaud; at 9.30—News; Review by Divoire.
10.30—Records: Fados.
10.45—Time; News; Programmes.

PRAGUE (Czechoslovakia)

638 kc/s (470.2 m.); 120 kW. Transmits at intervals from 5.15 a.m.
5.5 p.m.—German Transmission: Music by German-Czech Composers; A Play; Social Notes.
5.45—News in German.
5.55—Record.
6.0—Time; News.
6.10—Political Talk.
6.20—Local News.
6.25—"The Herdsman"—Moralizing Pastorale (Kubin) to Words of Kalus, from Moravska-Ostrava.
6.55—Talk on the following Concert.
7.0—Novák Concert from the Smetana Concert Hall. Czech Philharmonic. Conductor: Kleiber. Symphonic Poem, Pan. Suite, Southern Bohemia. In the interval, Talk: Books as Gifts.
8.55—Record.
9.0—Time; News.
9.15—English Lesson.
9.35—Four Part-Songs (Brahms) from Moravska-Ostrava.
10.0-10.15—News in French.

RADIO-NORMANDIE

(France)
1,113 kc/s (269.5 m.); 15 kW.
6.45 a.m.—Military Band.
7.0—Records.
7.15—News; Press Review.
7.45—Physical Exercises.
8.0—Light Music.
9.30—Fantasy.
9.45—Popular Music.
10.30—Scottish Music.
10.45—Light Music.
11.30—Orchestra. Nocturne (Faure). Excerpts, "Namouna" (Lalo).
12.0 noon—Concert. Une voile a claqué (Chaubert). Excerpt, "White Horse Inn" (Stolz-Benatzky). La tourterelle (Darmarçq). Je n'ai qu'un amour (Misraki). Je ne dirai pas tout (Desportes). La lettre de Lacourge (Bach-Laverne). Je ne donnerais pas ma place (Parys). Excerpt, "Lakmé" (Delibes).
12.45 p.m.—News.
1.0—Concert. Je suis content, content (Heintz). Je t'aime (Goublier). Selection, "Il est charmant" (Moretti). La boîte de Chine (Nibor). Song "Chansons de Paris" (Yvain). La première communion du gamin (Chepfer). La chanson des peupliers (Doria). Recitative and Air, "Joseph" (Méhul). La victoire ou la mort (Chomel). Les trois mandarins (Misraki).
2.0—Records.
2.15—Songs.
2.30—Light Music; Records.
3.0—Film Fantasy.
3.15—Light Music; Records.
4.45—Light Music.
5.0—Orchestra.
5.30—Light Music.
6.0—Children's Corner.
6.45—Talk; News; Racing.
7.0—Chansonettes.
7.25—News.
7.45—Records of Laverne.
8.0—Records of Gilles and Julien.
8.20—Variety.
11.0—Café Concert.
11.45—News; Weather.
12.0 m't.—Midnight Melodies.
12.30-1.0 a.m. (Thursday)—Dance Music.

RENNES-BRETAGNE

(France)
1,040 kc/s (288.5 m.); 120 kW. Transmits at intervals from 6.30 a.m.
6.45 p.m.—News (English, French).
7.30—Chamber Music from Nantes.
8.0—News; Records.
8.10 — Talk: Sport and Physical Training.
8.30—See Paris (PTT).

REYKJAVIK (Iceland)

208 kc/s (1,442 m.); 16 kW. Transmits at intervals from 12.0 noon
8.10 p.m.—Weather (Icelandic, German, English).
8.20—Parliamentary Review.
8.55—Notes; News; Talk.
9.55—Radio Orchestra.
10.30—Music from the Conservatoire.
11.0—Records; Singers of the Past.

WEDNESDAY (December 22)

ROME GROUP (Italy)

Rome (No. 1), 713 kc/s (420.8 m.); 50 kW. Bari (No. 1), etc. See Sunday. Transmits at intervals from 6.45 a.m. 4.0 p.m.—News. 4.15-4.50—Dance Music. 6.20—For Motorists. 6.30—Records. 7.0—Time; News. 7.20—Government Notes. 7.30—Light Music. 8.0—"Arriva una nave"—Three-Act Play (Giannini). 9.20 (approx.)—Radio Orchestra, Conductor: Salerno. 10.0—News. 10.15-10.50—Dance Music.

SOTTENS (Switzerland)

677 kc/s (443.1 m.); 100 kW. Relayed by Geneva, 401 kc/s (748 m.). 9.10-9.40 a.m.—Talk: Christmas. 11.30—News; Records. 12.0 noon-12.45 p.m.—Topical Film. 4.0-5.0—Sec Beromünster. 5.0-5.45—For Young People. 5.50-6.10—Talk: Tendencies in Art. 6.15—Micro-Magazine. 6.50—News. 7.0-9.0—Suisse romande Lottery Draw—Festival Programme from Sion with the Harmonie Municipale Orchestra, the "Chanson valaisanne" Choir and Speakers. 7.0—Homage March (Grieg). 7.10—Official Addresses. 7.25—Draw of the 5 fr. to 1,000 fr. Prizes. 7.45—Folk Songs. 7.50—Draw of the 5,000 fr. to 50,000 fr. Prizes. 8.20—Folk Songs. 8.25—Draw of the 100,000 fr. Prize. 8.30—March, The Flag of Liberty (Nowowski). 8.40—Draw of the 250,000 fr. Prize. 8.45—March, The Liberators (Ancliffe). 8.50—List of Prize-winners and Announcements. 9.0—Song Records. 9.30-10.0—Dance Records.

STOCKHOLM (Sweden)

704 kc/s (426.1 m.); 55 kW. Motala, etc. See Sunday. Transmits at intervals from 6.20 a.m. 4.5 p.m.—New Swedish Hymns. Engelbrekt Church Choir. Conductor: Ahlen. Lindberg (Organ). 4.40—Reading; Records; Talk. 6.0—News; Topical. 6.30—Cabaret Programme. 7.15—Literary Review. 7.45—Y.M.C.A. Choir. Conductor: Lidstam. Sanctus (Schubert). Jesu, salvator noster (Cordans). Shepherd of Israel (Bortniansky). Kostbara gava (Rücker). Kung Liljekonvalje (Wikander). Sol-skensvisa (Palmgren). Uti var hage (Wennerberg - Reuter). Aftenstämning (Melander). 8.15—Talk; Weather; News. 9.0-10.0—Radio Dance Band.

STRASBOURG (France)

859 kc/s (349.2 m.); 100 kW. Transmits at intervals from 6.30 a.m. 5.15 p.m.—String Quartet (Haydn). 6.0—Economic and Social Notes. 6.30—For Farmers. 7.0—News. 7.30—Sec Rennes-Bretagne. 8.0—News (German, French). 8.30 (also Rennes-Bretagne and Nice-Côte d'Azur)—National Orchestra, Conductor: Rosenthal. Neizl ("Cello"). Excerpts, "Egmont" (Beethoven). Hunnenschlacht (Liszt). Islamey (Balakirev-Casella). "Cello: Epiphany (Caplet). Les Heures Persanes (Kochlin). Fête du vin (Rosenthal).

STUTTGART (Germany)

574 kc/s (522.6 m.); 100 kW. Transmits at intervals from 5.0 a.m. 11.0 a.m.—Station Orchestra, etc. 12.0 noon—Time; News. 12.15 p.m.—Orchestra with Jetti Topitz-Feiler (Soprano). 1.0—Variety; Records. 3.0—Records with Commentary. 5.0—Talk: German Aviation. 5.30—Topical Talks. 6.0—News. 6.15—Variety Concert.

7.15—"The Soldier's Christmas"—Sequence (Stauder). 8.15—"Winter" from "The Seasons"—Oratorio (Haydn). Station Orchestra and Choir, Maria Reining, Georg Hann and Fritz Krauss. 9.0—Time; News. 9.30—Records. 11.0-12.0 m.t.—Station Choir and Orchestra, Conductor: Steffen. Franz Formacher (Soprano), Emma Mayer (Contralto), Jautz (Tenor). Overture, "Das Christelflein" (Pfitzner). Songs to Rainer Maria Rilke Text (Hesse). "Christnacht," for Chorus and Orchestra (Wolf).

TOULOUSE (Radio-Toulouse) (France)

913 kc/s (328.6 m.); 60 kW. Transmits at intervals from 8.0 a.m. 6.0 p.m.—Dance Band. 6.15—Operetta Airs. 6.40—Opera Music. March, "Thésée" (Lully). Aria, "Aida" (Verdi). Overture, "Mirella" (Gounod). Excerpts, "The Prophet" (Meyerbeer). 6.55—News; Sports. 7.15—Film Music. 7.40—Talk. 7.50—American Jazz. Goodbye, Girls, I'm through (Caryl). For you (Burke). My melancholy Baby (Burnett). Meet me to-night in Dreamland (Friedman). Let me call you sweetheart (Friedman). 8.10—Talk. 8.20—Revue, with Pierre Ferrari and Romeo Carli. 9.0—Ray Ventura and his Colleagues. 9.30—"Mignon" (Thomas). 10.0—News. 10.15—English Concert. 11.15—"Chut c'est un secret"—Fantasy. Le secret du bonheur (Metayer). Doux secret d'amour (Payrac). Le secret de tes caresses (Ala). Tout le pays l'a su (Borel Clerc). 11.35—Light Music. 11.50-12.0 m.t.—News.

TURIN GROUP (Italy)

Turin (No. 1), 1,140 kc/s (263.2 m.); 7 kW. Milan (No. 1), etc. See Sunday. Transmits at intervals from 6.45 a.m. 4.0 p.m.—News.

4.15-4.50 — Pais ('Cello). Sonata (Gabielli-Guerriani). Italian Suite (Stravinsky). Canzone a ballo (Boschi). 6.20—For Motorists. 6.30—Records. 7.0—Time; News. 7.20—Government Notes. 7.30—Light Music. 7.40 (Rome (No. 2) only)—News in English. 8.0—Symphony Concert. Conductor: Tansini. Feuermann ('Cello). Overture, "Il Signor Bruschini" (Rossini). 'Cello Concerto (Dvo ak). Nocturne and Dance (Porrino). Piccola suite (Cilea). Prelude to Act III, Carmen (Bizet). Intermezzo, "I quattro rusteghi" (Wolf-Ferrari). Siegfried's Rhine Journey (Wagner-Humpednick). In the interval, Talk. 10.0—News. 10.15—Dance Music. 10.55—Weather.

VIENNA (Austria)

592 kc/s (506.8 m.); 100 kW. Graz, etc. See Sunday. Transmits at intervals from 5.45 a.m. 3.5 p.m.—Records: Austrian Composers. 4.0—Talk: The Soldiers' Christmas. 4.20—Talk: Christmas and Industry. 4.30—Austrian Composers—Concert by Rose Merker (Soprano), Hilde Adler (Pfte.), Sedlak (Violin). Gruber (Viola), Winkler ('Cello). Songs (Holenia), the Composer at the Pfte. Pfte. Pieces (Salmhofer: (a) Prelude, (b) Poeme, (c) Minuet, (d) Scherzo, (e) Klavierstück in Quarten. Songs (Holenia), the Composer at the Pfte. Trio Serenade (Salmhofer). 5.20—Talk: Economic Reconstruction. 5.40—German Lesson. 6.0—Time; News. 6.10—Topical Talk. 6.25—Soldiers' Songs—Choir, Orchestra, etc. 7.0—Ballad: Die Madonna der Nähmaschine (de Nora). 7.5—"Das Märchen der 1002 Nacht"—a Dramatic Poem on a Fairy Tale of Queen Marie of Rumania (Keith).

8.50—Books as Gifts. 9.10—News. 9.20—Talk in French with Competition Announcement: Hiver ensoleillé en Autriche. 9.30—Winter Relief Fund Concert. Station Orchestra, Nahlitshchek (Violin). Wanausch (Flute). Radetsky March (Strauss). Mimi-Walzer (Zaruba). Zigeunerweisen (Sarasate). Arminenmarsch (Zuber). March (Engelhart). Herzliebste (Stellner). Ave Maria (Gounod). Concert Rondo (Herrnried). Mazurka (Heilingner). March (Geyer).

WARSAW (Poland)

224 kc/s (1,339 m.); 120 kW. Cracow, etc. See Sunday. Transmits at intervals from 5.15 a.m. 3.15 p.m. (from Katowice)—Wellnowec Mandoline Band. 3.50—Topical; Talk. 4.15—Kowalski ('Cello), and Zabejda-Sumicki (Songs). Se tu m'ami (Pergolesi). Wiegienlied (Mozart). Primavera d'amore (Pick - Mangiagalli). Minuet (Becker). Scherzo (v.Goens). The Star (Mussorgsky). Serenade (Rózycki). Spring Morning (Malinowski). Spring Morning (Tchajkowsky). Intermezzo (Granados). Malagueña (Albeniz). 4.50—Talk; Sports. 5.10—Chinese Themes on Records. 5.30—Programmes; For Farmers. 6.0—Reading. 6.20—Report from St. John's Church at Leipzig: Bach's Tomb. 6.35—Talks; Topical; Film Records. 7.45—News; Topical. 8.0—Chopin Music by Lewiecki (Pfte.). Rondo à la Mazurka in F. Impromptu in F sharp. Scherzo in B minor. Scherzo in C sharp minor. Preludes in A minor, E flat minor, D flat and G minor. 8.45—Polish Poetry. 9.0—Station Orchestra, Conductor: Fitelberg, Romanowski (Baritone). Overture, "Oberon" (Weber). Excerpts, "The Valkyrie" (Wagner). Danse macabre (Saint-Saens). Arias, "Tannhäuser" (Wagner), "Simone Boccanegra" (Verdi). Overture, "Djamiieh" (Bizet). 9.50-10.0—News; Weather.

THURSDAY Dec. 23

NATIONAL

For Time Signals, see Monday. 10.15 a.m. (D)—Service. 10.30 (D)—Weather Forecast. 10.45—At Home To-day. 11.5—Records. 11.45—Cinema Orchestra. 12.30 p.m.—"At the Black Dog." 1.0—BBC Variety Orchestra. 2.0—Records. 2.50—Two Ghost Stories. 3.15—Bournemouth Municipal Orchestra: Lelity Howell ('Cello). 4.45—Discussion on Christmas. 5.0—Al Collins and his Orchestra. 6.0—The First News. 6.20—Book talk. 6.40—Patricia Rossborough (Pfte.). 7.0—Records. 7.30—Dale Smith (Baritone). 8.0—Jack Payne's Party. 9.0—The Third News. 9.20—Schubert's String Quartet in G minor, No. 9. 9.45—"Wanted for Murder:" Frank Gerald. 10.0—Mid-Week Service. 10.20—BBC Orchestra (Section E): Conducted by Clarence Raybould; Maurice Cole (Pfte.). 11.15—Jack Jackson's Band. 11.30-12.0—Dance Records.

REGIONAL

For Time Signals, see Monday. 10.15-10.45 a.m. (ex. Western)—National. 10.45 (ex. Western)—Cinema Organ. 10.45 (Western)—National. 11.15 (ex. Western)—Trio. 11.45 (ex. Northern, Western)—BBC Singers (A). 11.45 (Northern)—Ballads. 12.15 p.m. (ex. Western)—BBC Welsh Orchestra: Marion Browne (Soprano). 1.0 (ex. Western)—Short story. 1.20 (ex. Western)—Dance Records. 2.0 (ex. Western)—Jean Laird Bruce (Contralto); Philharmonic String Quartet. 2.45 (ex. Western)—Royal Marines Band: Hilda Blake (Soprano). 3.30 (Scottish)—Mid-Week Service. 3.45 (ex. Western; Scottish 4.0)—Records.

4.15 (ex. Western)—Orchestra. 5.0—The Children's Hour. 6.0 (Regional, Western, N. Ireland)—BBC Northern Ireland Orchestra: Harry Dyson (Flute). 6.0 (Midland)—Cinema Organ. 6.0 (Northern)—"Pre-Pantomime Parade." 6.0 (Welsh)—Swansea Police Band: Bessie Jones (Soprano). 6.0 (Scottish)—Band. 6.30 (Midland)—Arthur Cranmer (Baritone). 6.30 (Scottish)—For Farmers. 6.40 (Northern)—"Christmas in Wartime." 6.40 (Scottish)—Pipe Band. 6.45 (Welsh)—Gunstone Jones (Penillion); Tom Bryant (Harp). 7.0—The Second News. 7.20—Regional Announcements. 7.30 (ex. Northern, Welsh, N. Ireland)—Light Orchestra. 7.30 (Northern)—Darts. 7.30 (Welsh)—Welsh News. 7.30 (N. Ireland)—Carols. 7.45 (Welsh)—Male Voice Choir: Alwena Roberts (Harp). 7.45 (Northern)—String Players. 8.0 (ex. Northern, Welsh, N. Ireland)—Two Meetings with the Kaiser before the War: Dame Ethel Smyth, D.B.E., Mus.Doc. 8.0 (N. Ireland)—Talk. 8.15 (Regional, Midland)—Christmas Music. 8.15 (Northern)—A Nativity Play. 8.15 (Western)—For Farmers. 8.15 (N. Ireland)—Orchestra. 8.15 (Scottish)—"Whuppitystoorie." 8.30 (Welsh)—Welsh talk. 8.35 (Western)—Light Orchestra. 8.45 (N. Ireland)—Gardening talk. 8.50 (Welsh)—Ben Davies (Tenor). 9.0 (ex. Western, Welsh)—Variety. 9.0 (Western)—Pantomime Preview. 9.20 (Welsh)—"Butties." 9.30 (ex. Midland, Western, Welsh)—Grandma Buggins. 9.30 (Midland)—Quintet. 10.0—News Summary. 10.25 (ex. Western)—Jackson Band. 11.30 (ex. Western)—Late News Summary. 11.40-12.0 (ex. Western)—Records.

Hours of Transmission in Greenwich Mean Time.

ATHLONE (Ireland)

565 kc/s (531 m.); 100 kW. Dublin, etc. See Sunday. 1.30-3.0 p.m.—Records. 5.30—"Waiting for Santa Claus"—Programme for Children, presented by Hilda Duffy and Company. 5.45—As I see it, by Liam Breathnach. 6.0—Modern English Composers: No. 3—Victor Love. 6.35—Irish News Feature. 6.45—News. 7.0—"The Lights of Dublin"—Christmas in the Capital by Anna Kelly. 7.20—Christmas Concert—Irish Radio Orchestra. William Fortune (Tenor). Christmas Memories (Finck). Suite, Christmas Tree (Rebikov). Christmas Bells (Eilenberg). 8.5—They wrote to Santa Claus—Reading of Children's Letters. 8.15—"Candle Light"—A Christmas Play (Eily MacAdam). 8.35—Christmas Songs to Old Irish and Scottish Music by Mairin Ní Sheaghdha. 8.55—Talk in Irish by the Rev. Henry Conway: The Holy Land. 9.10—Nancy McLoughlin ('Cello). 9.30—Variety. 10.30—News. 11.0—National Anthem.

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; Water Level. 1.15-3.0—Lutter Band: at 2.15-2.35, Exchange; Markets. 3.30—Talk: Decorating a Christmas Tree. 4.0—Chamber Music—Erika Legart (Songs), Bitner (Harpischord), Seiler (Viola d'amore), and Wilksch (Viola da gamba). Pastoral for Viola da gamba and Harpischord (Telemann). Harpischord: Variations on a Shepherd Song (Murschhauser). Old Christmas Folk-Songs. Sonata for Viola d'amore and Harpischord (Ariosti).

4.30—Frau Viehmännin and the Brothers Grimm. 5.0-5.45—Fröhlich Band. 6.0—For all German Stations: The People's Christmas Festival from the Friedrichshain Saalbau—Address by Dr. Gobbels. 6.25 (approx.)—News; Topical; Announcements. 6.35—Records for Children. 6.45—Evening Echoes. 7.0—Dance Music—Station Orchestra. Conductor: Willy Steiner; Kroplo Band. 9.0—News; Sports. 9.30-11.0—See Stuttgart.

BEROMÜNSTER (Switzerland)

556 kc/s (539.6 m.); 100 kW. Relayed by Basle and Berne, 1,375 kc/s (218.2 m.). 5.30-5.50 a.m.—Gym. 11.0—"Ave Maria"—Records. 11.29—News. 11.40—Records: Turkish and Gipsy Music. 12.35 p.m.-12.45—A Calendar. 3.0—For Invalids. 3.30—Records. 4.0-5.0—See Sottens. 5.0—Weather; Cookery. 5.10—Records. 5.30—Reading. 6.0—Traffic Notes. 6.10—Records. 6.20—"Cosima Wagner"—Sketch (Beidler). 6.45—News. 6.55—Sulzberger (Pfte.). 7.20—Lecture-Recital by Walter Lang: The Pianoforte. 7.45—Oerlikon Mixed Choir and Zürich Radio Orchestra, Elsa Vogt (Soprano), Dora Wyss (Contralto), Hans Bernhard (Tenor). Alfred Baum (Organ). Margrit Heusser (Pfte.). 8.35—Literary Talk. 8.45—Light Music. Zürich Radio Orchestra. Conductor: Hofmann. 9.25-9.30—News.

BRATISLAVA (Czechoslovakia)

1,004 kc/s (298.8 m.); 13.5 kW. Transmits at intervals from 5.15 a.m. 7.55 p.m.—Carols. 8.15—Christmas Sonatina (Novák) by Lisa Fuchsová (Pfte.). 8.30—Talk.

8.35—Ledvina (Organ) from the Franciscan Church, Pastorale in A flat (Springer). Ora gaudiosa di natività (Bossi). Pastorale in E (Franck). 8.55-9.15—See Prague. 9.15—News in Hungarian. 9.30-10.0—Records.

BRESLAU (Germany)

950 kc/s (315.8 m.); 100 kW. Relayed by Gleiwitz and Górlitz, 1,231 kc/s (243.7 m.). Transmits at intervals from 4.30 a.m. 11.0 a.m.—Light Orchestral. 12.0 noon—News. 12.15 p.m.—Light Orchestral. 1.0—News; Exchange. 1.15-2.0—See Berlin. 2.30—Visit to the Breslau Toy Fair; Christmas Books. 3.0—See Deutschlandsender; at 4.0-4.10—Christmas Books. 5.0—Talks. 5.30 (from Gleiwitz)—Topical. 5.50—Announcements. 6.0—See Berlin. 6.25 (approx.)—News. 6.35—To be announced. 8.0—Motto. 8.10—"Walther von der Vogelweide"—Play about the Minnesingers (Demli); Music by Heiduczek. Conductor: The Composer. 9.0—News; Topical. 9.30-10.30—"Menschen im Alltag"—Play (Müser).

BRNO (Czechoslovakia)

922 kc/s (325.4 m.); 32 kW. Transmits at intervals from 5.15 a.m. 4.40 p.m.—German Talks and Records. 5.15—News; Review; Morse. 5.45-7.55—See Prague. 7.55—Station Orchestra and Mila Gothardová (Soprano). 8.55-10.0—See Prague.

BRUSSELS (No. 1) (Belgium)

620 kc/s (483.9 m.); 15 kW. 6.37-9.5 a.m.—Records; News; Gym. 12.0 noon—Records. 12.30 p.m.—Weather; Shipping. 12.33—Light Orchestral. Conductor: Souris. Segers (Accordion). 1.0—Topical; News. 1.10—Orchestra, etc. (contd.). 1.30—Variety Records.

2.0—Art Notes.
 4.55—News; Records.
 5.30—For Children.
 6.0—For Women.
 6.15—Mar Alexys Orchestra. Mlle Piménides (Violin).
 7.0—For Workers.
 7.15—Records; Mexican Music.
 7.30—Topical; News.
 8.0—Cabaret, with M. Beryvl and Artists of the Grillon.
 8.30—I.N.R. Symphony Orchestra. Conductor: Franz André. Hélène Pignari (Pfte.). Excerpt, "Don Quixote" (Espla). Le Festin de l'Araignée (Roussel).
 9.0—Legal Talk.
 9.15—Orchestra and Pfte. (contd.). Excerpts, Pfte. Concerto (Voronoff). Burlesque (Strauss). Marine (Bondeville). Excerpts, Scythian Suite (Prokofiev).
 10.0—Topical; News.
 10.10—11.0—Records.

BRUSSELS (No. 2)
(Belgium)

932 kc/s (321.9 m.); 15 kW.
 Programme in Flemish.
 6.30-9.5 a.m.—Records; News; Gym.
 12.0 noon—Song Records.
 12.30 p.m.—Radio Orchestra. Conductor: Douliez; at 1.0-1.10, Shipping.
 1.30-2.0—Records.
 4.55—News.
 5.0—Brenders Dance Band.
 5.30—For Women.
 6.15—Horens (Flute). Fantasia (Hue). Hungarian Pastoral Fantasia (Doppler). Syrinx (Debussy). Sonata (Milhaud).
 6.45—Talk: Modern Intellectual Tendencies.
 7.0—Records: Songs, "Die Winterreise" (Schubert) by Gerhard Hüsch (Baritone).
 7.30—Literary Review.
 8.0—"The Millionth I.N.R. Listener"—Variety, with the I.N.R. Orchestras and Dramatic Company, Jan Steurs (Accordion), etc.
 10.0—Topical; News; Record.
 10.35—The Busch Duo.
 10.50-11.0—Records.

BUCHAREST (Romania)

823 kc/s (364.5 m.); 12 kW.
 Relayed by Radio-Romania, 160 kc/s (1,875 m.).
 Transmits at intervals from 4.30 a.m. 3.0 p.m.—For Children.
 4.0—Time; Dance Music by the Corologos Orchestra.
 5.50—Talk: Christmas.
 6.5—Viorica Alexandresco (Violin).
 6.40—Maxim Vasiliu (Carols).
 7.0—Talk: Christmas in Sicily.
 7.15—Christmas Eve Concert. Radio Orchestra. Conductor: Rogalsky. Alexandresco (Songs). Romanian Carol (Agarbecano). Christmas Carol (Dragoi). Christmas Carols (Brediceano). The Three Magi (Schoemaker). In a Toy Shop (Engelmann). Christmas (Kostal). Christmas Serenade (Lohr). Five Christmas Carols (Cuclin).
 8.30—News; Sports Notes.
 8.45—Predesco Orchestra.
 9.45—News (French German).

BUDAPEST (No. 1)
(Hungary)

546 kc/s (549.5 m.); 120 kW.
 Transmits at intervals from 5.45 a.m. 11.5 a.m.—Station Band.
 11.30—News; Station Band.
 12.30 p.m.—Balalaika Band.
 1.40—News; Balalaika Band.
 3.15—For Housewives.
 4.0—For Farmers.
 4.30—Kiss Cigány Band.
 5.10—Prizewinning Canaries sing.
 5.30—Orchestra. Conductor: Müller. Fata morgana (Lavotta). Negro Lullaby (Clutsum). Wochenend im Traumland (Armandola). Excerpt, "The Circus Princess" (Kálmán). Russian Suite (Meyer-Helmund). Hungarian Song Potpourri (Fricsav).
 6.15—Foreign Affairs.
 7.0—Nativity Play (Farkas).
 8.30—News.
 8.55—Béla Bartók Music by the Composer (Pfte.). Miniature Suite. Excerpts, "Microcosmos."
 9.30—Talk in German.
 9.55—Records: Hungarian Songs and Dance Music.
 11.5—News.

BUDAPEST (No. 2)
(Hungary)

359.5 kc/s (834.5 m.); 18 kW.
 4.0 p.m.—László Erdöss.
 5.0—Records.
 5.45—English Lesson.
 7.0—News.
 7.25—Farkas Cigány Band.

COLOGNE (Germany)

658 kc/s (455.9 m.); 100 kW.
 Transmits at intervals from 5.0 a.m. 11.0 a.m.-1.0 p.m.—See Frankfurt.
 1.0—News.
 1.15-2.0—Schrammel Ensemble.
 2.30—Legal Talk; Notes.
 3.0—See Deutschlandsender.
 4.0—Books.
 4.15—Bagatelle (Haas).
 4.30—"Stille Zeit"—Sequence about Mother and Child.
 5.0—Italian Lesson; Music.
 5.30—"The Divining Rod"—Talk and Report; Snapshots.
 6.0—See Berlin.
 6.25 (approx.)—News.
 6.35—Records: Fairy-tale Dances (Tchaikovsky, Rossini-Kespighi).
 7.15—"Das Christelflein" (Pfitzner), with the Station Orchestra and Choir, and the Cologne Municipal Orphanage Children's Choir. Conductor: The Composer.
 9.0—News.
 9.20—U.S.A. Bulletin.
 9.30-11.0—See Stuttgart.

DEUTSCHLANDSENDER
(Germany)

191 kc/s (1,571 m.); 60 kW.
 Transmits at intervals from 5.0 a.m. 11.0 a.m. - 12.50 p.m.—See Breslau.
 12.50—News.
 1.0—Variety, with Herbert Jäger and Records.
 2.0—Announcements; Records.
 3.0—Light Music and Operetta Music—Orchestra. Conductor: Dobrindt; at 4.0-4.10—Christmas Story (Jolli).
 5.0—Reading (Prugel).
 5.15-5.45—Records.
 6.0—See Berlin.
 6.25 (approx.)—News.
 6.35—See Leipzig.
 7.45—To be announced.
 8.0—Topical.
 8.15—"At Close of Day," with a Christmas Fairy-tale and the von Geczy Band, etc.
 9.0—News Topical.
 9.30—Weather.
 9.45—Act III, "L'Amico Fritz" (Mascagni) from Turin (No. 1).
 10.20-11.0—Music from Hamburg.

FRANKFURT (Germany)

1,195 kc/s (251 m.); 25 kW.
 Cassel, etc. See Sunday.
 Transmits at intervals from 5.0 a.m. 11.0 a.m.—Coblenz Orchestra.
 12.0 noon—News; Road Report.
 12.15 p.m.—Orchestra (contd.).
 1.0—News; Children's Records.
 2.0-2.45—Notes; For Children.
 3.0—Provincial Orchestra. Conductor: Cujc. In the interval, Reading.
 5.0—Topical Talks.
 6.0—See Berlin.
 6.25 (approx.)—News.
 6.35—Municipal Orchestra and Solo Voices. Conductor: Pfänder. Selection, "L'oca del Cairo" (Mozart). Pieces (Beethoven): (a) Musik aus einem Ritterballett, (b) Der Kuss. Pieces (Schubert): (a) Der Hirt auf dem Felsen, (b) Scherzo and Impromptu, (c) Military March. Da streiten sich die Leut' herum, from "Der Verschwennder" (Kreutzer). Klänge aus der Raimundzeit (Strauss). Two Viennese Folk Songs. Wiener Jubel-Ouverture (Suppé). Staccato Caprice (Vogrich). Teufelsmarsch (Suppé).
 8.15—"Stille Nacht"—Sequence about the Old Carol (Betzner).
 9.0—News; Sports.
 9.20—U.S.A. Bulletin.
 9.30—See Stuttgart.
 11.0-12.0 m't.—Mass in F minor (Bruckner), by the Station Choir, Orchestra and Solo Voices. Conductor: Belker (Recorded).

HAMBURG (Germany)

904 kc/s (331.9 m.); 100 kW.
 Bremen, etc. See Sunday.
 Transmits at intervals from 5.10 a.m. 11.0 a.m.—Kiel Orchestra.
 12.0 noon—Weather; Review.
 12.15 p.m.—See Frankfurt.
 1.0—News; Music.
 2.0—Shipping; Markets.
 2.25—Song Records.
 2.50—Ice Report.
 3.0—Light Music—Dance Band, Schrammel Quartet, Soprano, Tenor. In the interval, Talk.
 4.15—"Chance, Providence or Fate?"—Sequence.
 5.0—Christmas Songs by the Station Quartet; Records.
 5.45—Shipping.
 6.0—See Berlin.
 6.25 (approx.)—News.
 6.35—"Winter"—Station Orchestra. Conductor: Kruttge. Winter, "The Seasons" (Vivaldi). Shepherd Music, Christmas Concerto

(Corelli). Pastoral Symphony
(Rosetti). German Dance
(Mozart).

6.50—Topical.
 7.0—See Königsberg.
 9.0—News.
 9.20—U.S.A. Bulletin.
 9.30-11.0—Light Orchestral. Conductor: von Sosen.

HILVERSUM (No. 1)
(Holland)

160 kc/s (1,875 m.); 10 kW until 2.40 p.m.; 150 kW from 2.40 p.m. Also on Lopikerkapel, 722 kc/s (415.4 m.); 17 kW from 2.40 p.m.
 7.40-8.55 a.m.—KRO Programme; Records.
 9.40-10.40—NCRV Programme: Records; Religious Address; Records.
 10.40 a.m.-1.40 p.m.—KRO Programme.
 10.40—Records.
 11.10—Religious Address; Announcements.
 11.55—KRO Orchestra. Conductor: van 't Woud; at 12.40—Records.
 1.40 till Close—NCRV Programme.
 1.40—Handwork Lesson.
 2.40—Gray (Organ).
 3.25—Bible Reading.
 4.25—For Young People.
 4.55—Rotterdam Pfte. Quartet and Records.
 6.10—Records; Talks; Announcements; Report.
 7.40—Press Review.
 7.50 (approx.)—Christmas Carols. Choir and Solo Voices. Conductor: Nogarede. Address by Pastor Dercksen.
 9.40—Press Review.
 9.50 (approx.)—Mme Ludolph (Soprano). Mlle Stroink (Contralto). Daems (Oboe) and Bley (Organ).
 10.25—Gym.
 10.40-11.40—Record; Bible Reading.

HILVERSUM (No. 2)
(Holland)

995 kc/s (301.5 m.); 15 kW.
 until 6.10 p.m.; 60 kW from 6.10 p.m.
 AVRO Programme.
 7.40 a.m.—Time; Records.
 9.40—Service.
 9.55—Records.
 10.10—AVRO Orchestra. Conductor: Treep.
 10.40—Talk.
 11.10—AVRO Orchestra (contd.).
 12.10 p.m.—AVRO Dance Band.
 12.40 p.m.—Kovacs Lajos Orchestra. Nina Dolce (Violin).
 1.40—Talk.
 2.10—Aeolian Orchestra. Pierre Palla (Organ).
 3.40—For Hospitals.
 4.10—Records.
 4.40—Play for Children.
 5.10—Kovacs Lajos Orchestra.
 6.10—Sports Talk by Han Hollander.
 6.40—For Children.
 6.45—Cornelius Songs by Marguerite Postuma.
 7.20—Talk: Christmas in England.
 7.40—Time; News.
 7.50—AVRO Orchestra. Conductor: Treep. Ria Ginster (Soprano) and Bodky (Harpichord).
 8.40—"Little Dorrit"—Play after Dickens (Hermus).
 9.55—Old Music by the "Musica Antiqua" Orchestra and Ria Ginster (Soprano).
 10.40—News.
 10.50—AVRO Dance Band.
 11.20-11.40—Records.

KALUNDBORG (Denmark)

240 kc/s (1,250 m.); 60 kW.
 Relays Copenhagen, 1,176 kc/s (255.1 m.).
 Transmits at intervals from 6.0 a.m. 11.0 a.m.-1.0 p.m.—Preil's Ensemble.
 1.35—Carl Schnedler-Meyer (Pfte.). German Dances (Schubert). Bewegt (d'Albert). Scherzo in B flat minor (Chopin).
 1.55—Reading.
 2.15—Preil's Ensemble.
 3.30-3.50—For Children.
 4.0—Christmas Poems.
 4.25—Weather; Exchange; Markets.
 4.50—Records: Overture, "Poet and Peasant" (Suppé).
 5.0—Miss Tommy (Songs).
 5.15—Talk: Christmas.
 5.35—Norwegian Poems (Nielsen).
 5.55—Announcements.
 6.0—Time; News.
 6.30—Talk.
 7.0—Radio Orchestra. Conductor: Tuxen. Overture, "Le Roi d'Ys" (Lalo). Variations on a Schubert Theme (Reesen). Carnival in Paris (Svendsen).
 7.40—Concert from the Cathedral.

THURSDAY (December 23)

Cathedral Choir. Raasted (Organ). In dulci jubilo (Buxtehude). Organ: (a) Dejlig er den Himmel blaå (Emborg), (b) Den yngste Rose er funden (Raasted), (c) Et Barn er født i Bethlehem (Raasted). Christmas Cantata (Raasted).
 8.10—Serenades. Radio Orchestra, Conductor: Tuxen. Nocturne in C (Haydn). Serenade in A (Brahms).
 8.55—News; Weather.
 9.15—"Christmas in Greenland"—Play (Nora Bock-Hansen).
 10.0—Christmas Greetings to the Faroe Islands; at 11.0—Chimes.

KÖNIGSBERG (Heilsberg)
(Germany)

1,031 kc/s (291 m.); 100 kW.
 Relayed by Danzig, 1,303 kc/s (230.2 m.).
 Transmits at intervals from 5.0 a.m. 11.0 a.m. - 1.0 p.m.—See Frankfurt.
 1.0—News; Talk; Variety.
 1.55—Exchange.
 2.0—Shopping Talk with Records.
 2.30—Talk; Reading.
 3.0—Records. Arab Dance (Tchaikovsky). Excerpts, "L'Arlesienne" (Bizet). Spanish Serenade (Glazunov). Le Carnaval roman (Berlioz). Fantasia on "A Masked Ball" (Verdi). Arias, "Hansel and Gretel" (Humperdinck). Overture, "A Night in Venice" (Strauss). Song Potpourri (Krome). Selection, "Frasquita" (Lehár). March Potpourri (Kernbach). Träume am Meer (Zander). Waltz, Dorfschwalben aus Oesterreich (Strauss). Russian Waltz Fantasia (Borchert). By the blue Hawaiian Waters (Ketelbey). Selection, "Der lustige Krieg" (Strauss); Sports.
 4.50—Ice Report.
 5.0—"Wir grüssen das Leben"—Christmas Cantata (Henning).
 5.35—Topical; Notes.
 6.0—See Berlin.
 6.25 (approx.)—To be announced.
 7.0—"The Nutcracker dances!"—Play (Albrecht); Music by Hahn. Male Voice Quartet and Börschel Band, etc.
 9.0—News; Road Report.
 9.20—Nazi League Officials' Christmas Celebrations.
 9.35-11.0—Music from Stuttgart.

LAHTI (Finland)

166 kc/s (1,807 m.); 150 kW.
 Relays Helsinki, 895 kc/s (332.5 m.).
 Transmits at intervals from 6.5 a.m. 3.0 p.m.—Opera Music. Radio Orchestra. Conductor: Linko. Overture, "The Caliph of Bagdad" (Boieldieu). Aria, "Carmen" (Gounod). Aria, "I Paggiacci" (Leoncavallo). Polonaise, "The Queen of Spades" (Tchaikovsky).
 4.0—Interview.
 4.30—Antero Suoni (Songs) and Gerda Wenekoski (Pfte.).
 4.50—News (Finnish, Swedish).
 5.15—Martta Aarnikoita (Recitations).
 5.45—Folk Music.
 6.15—Variety.
 6.40—Talk.
 7.0—Dallapé Orchestra. Conductor: Katajavuori. Malmstén (Songs).
 7.45—News (Finnish, Swedish).
 8.10—Records: Light Music.
 9.0-10.0—Scottish Symphony (Mendelssohn) by the London Philharmonic. Conductor: Weingartner (Recorded).

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.-1.0 p.m.—See Frankfurt.
 1.0—News; Exchange; Records.
 2.10—Reading; Books.
 2.50—Brazilian Bulletin.
 3.0—See Deutschlandsender; at 4.0-4.10—Time; Weather; Industrial News.
 5.0—Reading.
 5.20—Brahms Music by Günther Homann (Pfte.). Two Intermezzi. Ballad. Romance. Intermezzo in E flat. Rhapsody in E flat. Gavotte (Gluck-Brahms).
 5.50—Evening Review.
 6.0—See Berlin.
 6.25 (approx.)—News.
 6.35—Light Music—Fricke Band and Krahé. Overture, "Banditenstreiche" (Suppé). Bauernlieder-

Walzer (Pacherwegg), Selection, "Der Obersteiger" (Zeller). Two Ski-ing Songs. Kirchweih in Tirol (Krome). Intermezzo, Koketterie (Mahr). Song Potpourri, Aus guter alter Zeit (Rhode). Two Folk Dances. Two Ski-ing Songs. Waltz Song, Hochzeit beim Kronenwirt (Hartmann). Troikafahrt, from "Ein Abend in St. Petersburg" (Meyer-Helmund). Launische Polka (Joost). Ein Abend im Müncher Hofbräuhaus (Derksen). Two Ski-ing Songs. Gallop, Tal ab (Kletzki).
 7.45—"Brigg Santa Fé"—Christmas Ballad (Huchel); Music by Müller.
 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 6.30 a.m. 7.0 p.m.—Mlle Verdier and Mme Danel (Two Pites).
 7.30—News.
 8.0—Dialect Programme.
 8.30—Ferrari Orchestra; After the Programme, News.

LYONS (PTT) (France)

648 kc/s (463 m.); 100 kW.
 Transmits at intervals from 6.30 a.m. 8.30 p.m.—"Miss Decima" (Audran); News (French, German).

MONTE CENERI
(Switzerland)

1,167 kc/s (257.1 m.); 15 kW.
 Transmits at intervals from 11.0 a.m. 6.45 p.m.—News.
 7.0—Old Music by Nino Herschel (Harpichord). Suite (Handel). Les Folies française (Couperin). Suite (Bach).
 7.30—Books.
 7.40-9.0—To be announced.

MOSCOW (No. 1) (Russia)

172 kc/s (1,744 m.); 500 kW.
 4.30 p.m.—Opera or Concert.
 9.0—French Programme.
 10.0-12.0 m't.—Spanish Programme.

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.—Station Orchestra.
 12.0 noon—News; Topical.
 12.15 p.m.—Records.
 1.0—News; Exchange.
 1.15—See Cologne.
 2.0-2.30—"Kasperl am Weihnachtsmarkt"—Play for Children (Grete Anders).
 3.0—"Love takes you by the hand"—Musical Sequence (Naumann), with Hanna Eschenbrücher and Mechtilde Schmid (Songs). Schönleben (Flute). Eugénie Ebner (Harp) and Gabriel (Pfte.).
 3.40—Kuhnert reads.
 4.0—Time; News.
 4.15 (from Nürnberg)—Light Music—Orchestra. Conductor: Böhm. Guttendobler (Baritone) and Rubasch (Pfte.). Overture, Bagatelle (Rixner). Songs (Brendel). Romance in G minor (Malo). Waltz, Gold and Silver (Lehár). Three Etudes (Czerny-Cramer-Chopin). Gounodiana (Rhode). Pastorale (Coste). Songs (Scherbe). Piece (de Micheli). Victoria regina, from "Das Blumenwunder" (Künneke).
 5.45—Topical.
 6.0—See Berlin.
 6.25 (approx.)—News.
 6.35—To be announced.
 8.0—"Autumn and Winter"—Sequence of Words and Music—Station Orchestra. Conductor: Mihalovic, Schwieger (Zither). Children's Vocal Trio. Solo Voices, Speakers, etc.
 9.0—News.
 9.15—For Ski-ers.
 9.30-11.0—See Stuttgart.

NAPLES GROUP (Italy)

Naples, 1,104 kc/s (271.7 m.); 10 kW.
 Florence (No. 1), etc. See Sunday.
 6.0 p.m.—Music; Songs; Topical.
 6.25—Bologna Mandoline Sextet.
 7.0—Time; News; Talk.
 7.30—"The Dollar Princess" (Fall). Conductor: Petralia. Cast: Fernanda D'Anici, Nuccia Natali, Nina Arturoff, Vincenzo Capponi, Giacomo Osella, Angelo Zanobini, Amelia Mayer.
 9.30 (approx.)—Dance Music.
 10.0—News.
 10.15—Dance Music.

THURSDAY (December 23)

OSLO (Norway)

260 kc/s (1,153.8 m.); 60 kW. Fredrikstad, etc. See Sunday. Transmits at intervals from 7.30 a.m. 4.55 p.m.—Service. 5.20—Records. 5.56—News; Announcements. 6.30—Talk. 7.0—Bergen Radio Orchestra. Excerpt, "Marianka" (Tavan). Dream Picture (de Micheli). The Flying Eagle (Jordan). A la Rigaudon (Jordan). Bei der Zigeunerkapelle (Meyer-Helmond). Minuet (Mozart). Humoresque (Aulin). The Song of the Violin (Schebek). Excerpt, "Carmen" (Bizet). 7.45—Talk. 8.10—Ingebjörg Grevvik (Pfte.). Toccata and Fugue in C (Bach-Busoni). Pieces (Debussy): (a) Two Arabesques, (b) Waltz, (c) Toccata. 8.40—News; Topical. 9.15-9.45—Chamber Music.

PARIS (Eiffel Tower)

(France) 1,456 kc/s (206 m.); 7 kW. Transmits at intervals from 6.30 a.m. 3.45 p.m.—"La nuit de la peur"—Three-act Thriller (de Lorde-de Tailleux) by the Art et Liberté Players. 5.0—Records. 5.45—Pascal Orchestra. Jeunes Lauries (Hahn). Waltz (Durand). Simple avec (Thomé). Seguidilla (Serrano). A Lima (Lacôme). Quand reviendra mon amour (Sablon). Come Gipsy, "Countess Maritza" (Kálmán). Incanto (Rousseau). Gipsy Air (Espajo). Tango, Ma Loula (Yvain). Parfum d'éventail (Mabille). Marche indienne (Sellenik). 6.30—Educational. 7.0—Theatre Review; Records. 7.30—Radio Journal; News. 8.0—Diana Corke (Songs), Jeanne Leleu (Pfte.). Songs (Roussel, de la Presle). Pfte.: (a) Barcarolle (Fauré), (b) Mélancolie (Chabrier), (c) Tourbillon (Chabrier), (d) Menuet pompeux (Chabrier). Le pays où se fait la guerre (Duparc). Songs (Schubert, Schumann). 8.30—"Le petit Choc" (Szulc). Conductor: Wolff. 10.30—Records. 11.0-11.15—News.

PARIS (Poste Parisien)

(France) 959 kc/s (312.8 m.); 70 kW. Transmits at intervals from 7.10 a.m. 12.0 noon—Exchange; Records. 12.15 p.m.—For Children. 12.25—News; Exchange. 12.39—Variety Concert. 1.15—Amusement Guide. 1.17—For Children. 1.32—Records. 2.0—Exchange; Records. 2.15—Amateurs' Half-Hour. 3.35 and 4.35—Exchange. 5.0—News; Cabaret. 6.0—Exchange; News. 6.10—The Adventure Club. 6.25—Talk by M. Ducray. 6.30—For Children. 6.58—Racing; Topical; Sports. 7.14—Amusements; Records. 7.40—Legal Talk. 7.45—Paris Programme with Line Viala. 8.0—News. 8.10—"Les Frères Jacasse." 8.15—"Plaisirs de Paris"—Variety, with Yolanda, René Paul and the Zepilli Orchestra. 8.45—Talk. 8.50—"La bonne histoire." 9.0—News; Music. 9.20—"En correctionnelle" (Diamant-Berger), with Marguerite Moreno, Balder, Claude Dauphin and Jean Nohain, etc. 9.55—News. 10.10—Talk by Adolphe Borchart; Wilhelm Backhaus, Pianist. 10.30-11.0—Dance Records.

PARIS (PTT) (France)

695 kc/s (431.7 m.); 120 kW. Transmits at intervals from 6.30 a.m. 4.0 p.m.—Jean Taleyac (Songs); Talks. 4.30—For Young People. 4.45—Light Music—Pierre de Clercq Orchestra. 5.45—Grammar; Talk. 6.0—For Farmers. 6.15—Talk; Ballanche. 6.30—Renée Nizan (Organ), from the Schola Cantorum. Dorian Toccata (Bach). Adagio, Fourth Symphony (Widor). Scherzo (Widmer). Polchra and Lurña (Dallier). Finale in B flat (Frankl).

7.0—Radio Journal; News. 8.0—Variety, with Jean Sorbier and Christiane Néré, presented by Max Blot. 8.30—"Siegfried"—Four-Act Play (Giraudoux) by the Mai 36 Players. 10.30—News; Records.



Exclusive "World-Radio" Picture

Mlle. Renée Nizan, who gives an organ recital from Paris (PTT) at 6.30 p.m.

PARIS (Radio-Paris)

(France) 182 kc/s (1,648 m.); 80 kW. 6.28 a.m.—Programmes; Records. 6.40—News; Gym; Records. 7.15—News; Records. 8.0—News; Programmes. 8.35—For Boy Scouts. 8.50-9.30—Records. 10.15—Programmes; Records. 10.45—Reading; Records. 11.45—Markets; Water Level. 1.0 noon—Protestant Address. 1.30 p.m.—Bailly Orchestra. 1.0—Time; News; Exchange. 1.30—Robert Laurence (Songs). 1.45—Bailly Orchestra. 2.0—Programme Notes; Talks. 2.30—Exchange; Markets. 2.45—Mlle Goy (Songs). 3.0—Mlle Vautier (Violin). 3.15—Literary Review. 3.25—Talk: The Colonies. 3.35—For Sportsmen. 3.45—Exchange. 4.0—Meunier Delince (Songs). 4.15—Educational. 4.45—Exchange; Markets. 5.0—"La Soeur"—Five-Act Play in Verse (Rotrou) by the Odéon Players. 6.30—Dialogue between Frédéric Lefèvre and Colette. 6.45—Medical Talk; Notes. 7.0—Educational. 7.30—Talk: The Exhibition. 7.45—"Reynoldo Hahn"—Presented by Paul Reboux. 7.59—Time; Foreign Affairs. 8.8—Home Affairs. 8.15—Jane Goupil (Songs). Twenty-Third Psalm (Schubert). Ninnanna (Cherubini). Le repos en Egypte (Gallon). Fifteenth Century Savoy Carol (arr. Berthier). 8.30—Christmas Oratorio (Bach). Maria Branze, Germaine Cernay, Georges Cathelat and Lovano, with the Raugel Choir. 9.30 (approx.)—News; Review. 9.45 (approx.)—Christmas Oratorio (Bach) (contd.). 10.30—Records. Variations libres et final (Pierné) by the Paris Instrumental Quintet. Menuet du Pays du tendre (Casadesu) by the Société des Instruments anciens. 10.45—Time; News; Programmes.

PRAGUE (Czechoslovakia)

638 kc/s (470.2 m.); 120 kW. Transmits at intervals from 5.15 a.m. 4.0 p.m.—Prague Wind Quintet, and Maxian (Pfte.). Wind Quintet (Trojan). Pfte. Quintet in E flat (Mozart). 4.40—For Farmers. 4.50—German Talks. 5.45—News (German). 6.0—Time; News. 6.15—Military Band. Conductor: Thier. Homage March (Knypl). Overture, "The Thick-Heads" (Dvořák). Excerpts, "Coppelia" (Delibes). Waltz (Vaniček). Polka (Pabouček). Serbian Song and Dance Potpourri (Soula). March (Vilim). 6.55—Talk. 7.10—"Born this Day"—Christmas Play (Müller), Music by Pone. 7.55—See Brno. 8.55—Record. 9.0—Time; News. 9.15—Russian Lesson. 9.35-10.0—Records.

RADIO-NORMANDIE

(France) 1,113 kc/s (269.5 m.); 15 kW. 6.45 a.m.—Military Band. 7.0—Songs. 7.15—News; Press Review. 7.45—Physical Exercises. 8.0—Records and Light Music. 9.45—Hildegard. 10.0—Light Music; Records. 11.0—Dance Music. 11.15—Light Music. 11.30—Chansonnettes. 12.5 p.m.—Records of Livschakoff and Orchestra. 12.20—Military Band. 12.45—News. 1.0—For Children. 2.30—Records. 3.0—Light Music. 4.0—Jane and John. 4.15—Light Music. 4.45—Monckton Music. Excerpts, "The Country Girl," "The Quaker Girl," My Mother Selection, "Our Miss Gibbs." 5.0—Light Music. 5.15—For Children. 5.30—Light Music. 6.0—Markets. 6.5—Orchestra. Serenade (Heykens). The Maiden's Prayer (Badarzewska). Serenade (Braga). Le Cancan de Tabarin (Audran-Lecocq). In a Persian Market (Kettelbey). Quand l'amour meurt (Crémieux). Les cloches du monastère (Lefebvre). Rose-Mousse (Bosc). Japanese Lantern Dance (Yoshitomo). 6.45—Basket-Ball Report; News; Racing. 7.0—Songs. 7.25—News. 7.45—Orchestra. Waltz, "Im Reiche des Indra" (Lincke). Serenade (Perry). Mon trésor (Chapuis). In the Shadows (Finck). 8.0—Episode IV—"Le crime du Val d'amour"—Thriller (Silva) with the Fred Adison Band. 8.20—Operetta Music. Excerpts, "Richard Cœur de Lion" (Grétry), "La Poupée" (Audran), "En Vacances" (Yvain), "Zou le Midi bouge" (Scotto), "Le petit Duc" (Lecocq), and "Chansons de Paris" (Yvain). 9.0—To be announced. 11.0—Café Concert. 11.45—News. 12.0 m.t.—Midnight Melodies. 12.30-1.0 a.m. (Friday)—Dance Music.

RENNES-BRETAGNE

(France) 1,040 kc/s (288.5 m.); 120 kW. Transmits at intervals from 6.30 a.m. 8.30 p.m.—Christmas Programme for Children, from Nantes. 9.30—"A Breton Christmas Eve"—Fantasy, with the Celtic Choir of Nantes. After the Programme, News; Records.

REYKJAVIK (Iceland)

208 kc/s (1,442 m.); 16 kW. Transmits at intervals from 12.0 noon 8.10 p.m.—Weather (Icelandic, German, English). 8.20—Parliamentary Review. 8.55—News; Talk. 9.55—Instrumental. 10.20—Radio Orchestra. 10.55-11.30—Dance Music.

ROME GROUP (Italy)

Rome (No. 1), 713 kc/s (420.8 m.); 50 kW. Bari (No. 1), etc. See Sunday. Transmits at intervals from 6.45 a.m. 4.0 p.m.—News. 4.15—Dance Music. 5.0-5.30—Talk. 6.20—Dopolavoro Notes. 6.30—Radio Orchestra. 7.0—Time; News; Talk. 7.30—Music. 8.0—Concert. Conductor: Mancini. Overture, "Susanna's Secret" (Wolf-Ferrari). Pomona (Waldteufel). Turkish March (Mozart). Selection, "Rose Marie" (Frini). Serenade (Tarenghi). Waltz, "The Sleeping Beauty" (Tchaikovsky). Dance of the Fawns (Licari). Finland (Cardoni). The Little Trumpeter (Carlini). Alcazar (Rosati). 8.50—Topical. 9.0—Band. Conductor: Albanese. March, Al Polo Nord (Nicoletti). Overture, "Norma" (Bellini). Waltz, Idylle passionelle (Razigade). Excerpts, "Don Carlos" (Verdi). Ode, "Il Decennale" (Blanc). Selection, "The Geisha" (Jones). March, Legione IX (Albanese). 10.0—News. 10.15-10.50—Dance Music.

SOTTENS (Switzerland)

677 kc/s (443.1 m.); 100 kW. Relayed by Geneva, 401 kc/s (748 m.). 11.30 a.m.—News. 11.40—Italian Opera Records. 12.0 noon—Dance Music. 12.15 p.m.—Variety Records. 12.35-12.45—Excerpts, Concerto in G (Soler) for Harpsichord and Organ. 4.0—Radio Suisse romande Orchestra. Conductor: Appia. 5.0—For Housewives. 5.15—Chamber Music Records. 5.40—Song Records. 6.0—For Bee-keepers. 6.10—Literary and Art Review. 6.20—Talk; Music. 6.50—News. 7.0—"Elle et Lui"—Scenes from Conjugal Life (Jaques-Dalcroze). Madeleine Dubuis (Soprano), Sandoz (Baritone), Radio Suisse romande Orchestra. Conductor: Haug. 7.45—"Soirée de chansons," with Edith Burger, René Bersin and Company. 9.0—Symphony (Labroca) by the Radio Suisse romande Orchestra. Conductor: Haug. 9.30—Edouard Moudon Commemoration Concert (Recorded). Lausanne Mixed Choir, Pully Male Voice Choir and Pully Women's Choir. Introduction and Commentary by M. Cherix. Male Voice Choir: National Anthem. Women's Choir: (a) Le vieux Pully, (b) Le Troubadour du Comte Pierre. Mixed Choir: (a) Le long du ruisseau, (b) Sonnez clochettes, (c) Idylle printanière. Massed Choirs: Mon doux Pays de Vaud.

STOCKHOLM (Sweden)

704 kc/s (426.1 m.); 55 kW. Motala, etc. See Sunday. Transmits at intervals from 6.20 a.m. 4.5 p.m.—Service. 4.30—Talk. 5.0 (from Göteborg)—Light Music—Broström Band. 6.0—News; Topical. 6.30—Göteborg Station Orchestra. Conductor: Tor Mann. Wolf (Violin). Violin Concerto in D (Beethoven). Serenade for Strings (Larsson). Overture, "Tannhäuser" (Wagner). 7.45—Talk. 8.15—Station Dance Band and Gösta Kjellertz (Songs). 8.45—Weather; News. 9.0-10.0—Christmas Cabaret on Records.

STRASBOURG (France)

859 kc/s (349.2 m.); 100 kW. Transmits at intervals from 6.30 a.m. 6.0 p.m.—For Farmers; Talk: 19th Century Ideology and Mysticism—Ballanche. 6.30—Wind Section of the Station Orchestra. Conductor: Bour. Canzoni per sonar a quattro (Gabrieli). Sixth Sonata—The Italian (Cédeville). Divertissement for Oboes, Clarinets and Bassoons (Haydn). 7.0—News; Records. 8.0—News (German, French). 9.30—"La Cigale et la Fourmi" (Audran). Conductor: de Villers. Cast: Jeanne Wild, Mme Hillmeyer, Mlle Genya-Marat, Collière, Vieuille, Dahler, Gillig, Weber. 9.45—Christmas Programme: (a) "Pour Noël," for Women's Voices and Orchestra (Bretagne), (b) "The Nativity" (Bouchor), Music by Vidal. 10.30—News (French, German).

STUTT GART (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—Variety Concert—Station Orchestra, Mandoline Band, etc. 2.0—Records. 3.0—Variety Concert from Karlsruhe and Mannheim—Orchestra, Trumpeters' Corps, etc. 5.0—Sequence about Mother and Child (Recorded); Topical. 6.0—See Berlin. 6.25 (approx.)—News. 6.35—To be announced. 7.0—"Star of Bethlehem"—Christmas Sequence of Words and Music (arr. Irene Herr). 7.30—Station Orchestra, Tenor and Instrumentalists. Kinderszenen (Schumann). Idyll (Marais). Bist du bei mir (Bach). Brandenburg Concerto in F (Bach). 8.15—Records: Quartet in G (Schubert) by the Strub Quartet. 9.0—News; Sports. 9.20—U.S.A. Bulletin. 9.30—Folk and Light Music—Rehfeld Band, Stuttgart Folk-Music Ensemble etc. 11.0-12.0 m.t.—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.—Dance Band. 6.15—For Children. 6.40—Light Music. 6.55—News; Sports. 7.15—Viennese Orchestra. Rose d'ombre (Rogé). Anne-Marie (Lossas). New York (Padilla). Lustige Brüder (Vollstedt). Ma poupe chérie (de Séverac). 7.40—Light Music. 8.30—Variety; Light Music. 9.10—Talk. 9.15—Maurice Saint-Paul (Accordion). 10.0—News. 10.15—English Concert. 11.15—Excerpts, "Deux sous de Fleurs" (Benatzky). 11.35—Light Music. 11.50-12.0 m.t.—News.

TURIN GROUP (Italy)

Turin (No. 1), 1,140 kc/s (263.2 m.); 7 kW. Milan (No. 1), etc. See Sunday. Transmits at intervals from 6.45 a.m. 4.0 p.m.—News. 4.15-4.50—Nandi Mari (Soprano), Ugo Novelli (Bass). 5.0-7.30—See Rome (No. 1). 7.30—Music. 7.40 (Rome (No. 2) only)—News in English. 8.0—From the Royal Opera, Rome. Conductor: Bellezza. Chorus-Master: Conca. Part I, "Le furie di Arlecchino" (Lualdi). Cast: Gianna Perèa Labia, Alessio de Paolis, Adelio Zagonara. Part II, "L'armico Fritz" (Mascagni). Cast: Licia Albanese, Beniamino Gigli, Gilda Alfano, Emilio Ghirardini, Adolfo Pacini, Adelio Zagonara, Maria Mariani. In the intervals, Talks and News.

VIENNA (Austria)

592 kc/s (506.8 m.); 100 kW. Graz, etc. See Sunday. Transmits at intervals from 5.45 a.m. 3.5 p.m.—Records of Famous Pianists. Edwin Fischer: Prelude and Fugue (Bach). Guido Peters: Bagatelle in B minor (Beethoven). Ignaz Friedmann: Scherzo in E minor (Mendelssohn). Godowski: Nocturne (Chopin). Walter Rehberg: Sonetto del Petrarca (Liszt). Backhaus: Romance in F (Brahms). Pachmann: Improvvisato in F sharp (Chopin). Claudio Arrau: Am Bach (Liszt). Paderewski: Le vent dans la plaine (Debussy). Rubinstein: Navarra (Albeniz). Rachmaninoff: Liebesfreud (Kreisler). 3.50—Talk: The Empress Elizabeth. 4.15—Christmas Folk Songs and Carols by the Vienna Women's Chamber Choir. Conductor: Kanitz. Zeller (Pfte.). 4.45—Art and Theatre Notes. 5.0—Carols by a Students' Choir; Announcements. 5.45—Science Notes. 5.50—Time; News. 5.55—"Arabella" (Strauss), from the Vienna State Opera; at 7.5-7.20—Snow Report; at 8.10-8.30—Talk on Christmas Eve. 9.25—News; Programmes. 9.35—Popular Education in Vienna. 9.45—Station Dance Band. 9.55—News; Announcements. 10.0-10.30—Station Dance Band.

WARSAW (Poland)

224 kc/s (1,339 m.); 120 kW. Cracow etc. See Sunday. Transmits at intervals from 5.15 a.m. 3.15 p.m.—Wilno Orchestra. Conductor: Szezepanski. Turkish March (Beethoven). Minuet (Boccherini). Gavotte (Bach). Soirées de Vienne (Schubert-Liszt). Serenade (Gounod). Humoresque (Dvořák). Waltz, "Der Rosenkavalier" (Strauss). 3.50—Topical; Talk. 4.15—Sztompka (Pfte.). Carnival (Schumann). Rhapsody (Liszt). 4.50—Sports; Letter-box. 5.25—Programme Notes. 5.35—For Peasant Children. 6.0 (from Lwów)—Excerpts, "Sigismund-Augustus"—Play (Wyspianski), with Introductory Talk. 6.40—Ballet Suite (Falla). 6.50—Topical Talk. 7.0—"Waltzes of Vienna" (Strauss-Bittner-Korngold). Conductor: Górzynski; at 7.45—News, Topical. 8.45—Reading (Rogowicz). 9.0—Station String Quartet. Quartet in C (Beethoven). Märchen (Schumann). 9.50-10.0—News; Press Review.

NATIONAL

For Time Signals, see Monday. 10.15 a.m. (D)—Service. 10.30 (D)—Weather Forecast. 10.45—Talk for Parents. 11.0—The Wessex Players. 11.45—A. M. Henderson (Organ). 12.30 p.m.—Henry Hall's Dance Orchestra. 1.15—Chamber Music: Trio. 2.0—Talk. 2.20—John MacArthur Quintet. 2.45—Records. 3.25—Festival of Nine Lessons and Carols. 4.45 (approx.)—A Preface for Christmas. 5.0—Edward Reach (Tenor). 5.15—Mario de Pietro and his Estudiantina. 6.0—The First News. 6.20—BBC Scottish Orchestra. 7.0—"The Erring Under-Secretary," by Francis Beeding. 8.0—Kerbside Kabaret. 8.30—Schubert's String Quartet in E flat, No. 10. 9.0—The Third News. 9.20—BBC Ballroom, 1909. 10.0—BBC Theatre Orchestra. 10.40—"A Sad Tale's Best for Winter." 11.15—Joe Loss and his Band. 11.30-12.0—Dance Records.

REGIONAL

For Time Signals, see Monday. 10.15-10.45 a.m. (ex. Western)—National. 10.45—Cinema Organ. 10.45 (Western)—National. 11.15 (ex. Western)—Orchestra: Elsie McCullough (Soprano). 12.15 p.m. (ex. Western)—Octet. 12.45 (ex. Western)—Marjorie Bates (Pfte.). 1.15 (ex. Western)—Records. 1.45 (ex. Western)—Reginald Foort (BBC Theatre Organ). 2.15 (ex. Western)—Orchestra: Antonio Brosa (Violin). 3.15 (ex. Western)—Light Orchestra. 3.50 (ex. Western)—"The History of Jazz." 4.20 (ex. Western)—Part 2, "Oliver Twist" (Dickens). 5.0 (ex. Western)—Children's Hour. 5.0 (Western)—National. 6.0 (ex. Midland, Welsh, Scottish)—Kendall Taylor (Pfte.). 6.0 (Midland)—Maddison String Trio. 6.0 (Welsh)—Redvers Llewellyn (Baritone). 6.0 (Scottish)—"Next Week You'll Hear." 6.10 (Scottish)—Saturday Sport. 6.20 (ex. Northern, Western)—Eugene Pini and his Tango Orchestra. 6.20 (Northern)—Leeds Banjo, Mandoline, and Guitar Orchestra. 6.20 (Western)—Bristol Police Band: Esme Webb (Contralto). 6.40 (Northern)—Farming talk. 7.0—The Second News. 7.20—Regional Announcements. 7.30 (Regional, Northern, N. Ireland)—The Little Orchestra. 7.30 (Midland)—Carols. 7.30 (Western)—"Waits and Measures." 7.30 (Welsh)—Welsh News. 7.30 (Scottish)—Scottish Dances. 7.45 (Welsh)—"Ar Nos Wener." 8.0 (ex. Midland, Northern, Western)—Carol Service. 8.0 (Midland, Western)—"Goodwill Towards Men." 8.0 (Northern)—Two stories. 8.30 (ex. Welsh, N. Ireland, Scottish)—Music from the Movies. 8.30 (Welsh)—Plantation Melodies and Negro Spirituals. 8.30 (N. Ireland)—Talk. 8.30 (Scottish)—"Annals of Aberdeen." 8.45 (N. Ireland)—Orchestra. 8.50 (Scottish)—Excerpt from "Dick Whittington." 9.10 (Regional, Midland, Welsh)—BBC Orchestra (Section D). 9.10 (Northern)—Christian Men, Rejoice! 9.10 (Western)—Dance Cabaret. 9.20 (N. Ireland)—"Not One Returns to Tell," by Denis Johnston. 9.20 (Scottish)—"The Week in Scotland." 9.40 (Scottish)—Wilfred Emery (Organ). 10.0—News Summary. 10.25 (ex. Western)—Joe Loss and his Band. 11.30 (ex. Western)—Late News Summary. 11.40-12.0—Records.

Hours of Transmission in Greenwich Mean Time.

ATHLONE (Ireland)

565 kc/s (531 m.); 100 kW. Dublin, etc. See Sunday. 1.30-3.0 p.m.—Records. 5.30—A Christmas Eve Programme. 6.5—Irish Dance Music by Sheridan (Fiddle). 6.20—"Oh, those Christmas Presents." 6.35—Irish News Feature. 6.45—News. 7.0—"The Crib" (Alfred O'Rahilly). 7.15—Irish Radio Orchestra. Gabriel Lavelle (Baritone). Excerpt, "Le Carnaval de Venise" (Thomas). Children's Suite (Ansell). 7.45—To-night in the Gaeltacht—Teresa Nic Aodhain, O'Muimhneachain and Bairbre Ni Chonaire. 8.15—Irish Radio Orchestra. Edith McKenna (Soprano). Christmas Overture (Coleridge - Taylor). Christmas Medley (Aston). Dream of Christmas (Kettelbey). Bacchanalian Fantasia (Finck). 8.45—"Christmas comes but once a year"—Interviews compered by Capt. Lucy. 9.15—Irish Traditional Music by Sean Nolan (Fiddle) and Eamon O'Gallchoir (Pfte.). 9.30—Variety. 10.30—News. 11.0—Mr. de Valera speaks to Irish Exiles. 11.15—Christmas Carols by the Good Companions. 12.0 m't.-12.45 a.m. (Saturday)—Midnight Mass from Mount St. Joseph's Abbey, Roscrea.

BERLIN (Germany)

841 kc/s (356.7 m.); 100 kW. Transmits at intervals from 5.0 a.m. 11.0 a.m.—See Stuttgart. 12.0 noon—Christmas Snapshots. 12.15 p.m.—See Stuttgart. 1.0—News; Water Level. 1.15—Fröhlich Band; Records. 2.30—"Christmas Eve"—Songs, etc. 3.0—"Hansel and Gretel" (Humperdinck). Conductor: Heinrich Steiner (Recorded). 5.0—Christmas Concert—Station Orchestra, Conductor: Willy Steiner, Band, Hitler Youth Mozart Choir, etc. 7.0—"A Merry Christmas!"—Address by Herr Stoffregen, Director of the Deutschlandsender and Berlin Stations, with the Station Orchestra, Choir, etc. Conductor: Heinrich Steiner. 9.0—Christmas Chimes. 9.25-11.0—Light Music.



Photo: Gulliland

Charlotte Töpfer and Kati Rauch, who will sing popular melodies in the Berlin Christmas Eve programme (9.25 p.m.)

BEROMÜNSTER

(Switzerland) 556 kc/s (539.6 m.); 100 kW. Relayed by Basle and Berne, 1,375 kc/s (218.2 m.). 5.30-5.50 a.m.—Gym. 11.0—Records. 11.40 a.m.-12.45 p.m.—Radio Sextet. 3.0—A Fairy-tale. 3.30—Records. 4.0—To be announced. 5.0—Weather; For Children. 6.0—Christmas Chimes. 6.10—Reading in Dialect. 6.40—News. 6.55—"Odae genethliacae ad Christum," for Soloists, Mixed Choir, Harpsichord and Strings (Molitor). 7.15 (from Berne)—"The Christmas Star"—Play (Lienert), with Music by Huber.

8.15—Radio Orchestra. Conductor: Hofmann. 8.55—Reading (Vöglin). 9.10—"Die Menschwerdung" (Haas) by the Cecilia Choir and Berne Municipal Orchestra. 9.40-9.45—Announcements. 10.50-11.45 (approx.)—Midnight Mass from Berne Minster.

BRATISLAVA

(Czechoslovakia) 1,004 kc/s (298.8 m.); 13.5 kW. Transmits at intervals from 5.15 a.m. 5.15 p.m.-12.0 m't.—See Prague.

BRESLAU (Germany)

950 kc/s (315.8 m.); 100 kW. Relayed by Gleiwitz and Görlitz, 1,231 kc/s (243.7 m.). Transmits at intervals from 4.30 a.m. 11.0 a.m.-1.0 p.m.—See Stuttgart. 3.0—Station Orchestra, etc.; at 4.0-4.10—Reading (Lagerlöf). 5.0—Annemarie Friedrichs (Violin), Fischner (Harpsichord). 5.30—Kaatz (Harmonium). 6.0—"Die Wunderkerze"—Sequence with Music (Sattler). Conductor: The Composer (Recorded). 7.0—See Munich. 7.20—"The Christmas Tree"—Orchestra, Choir, Gerda Specht (Contralto), Bertermann (Baritone) and Hattwig (Pfte.); Overture, "Das Christelflein" (Pfitzner). Tag für Tag sei dir Lob (Handel). Christmas Music for Harpsichord. Two Carols (Cornelius), Excerpts, "Hansel and Gretel" (Humperdinck), "Schlesische Bergweihnacht"—Suite (Rischka), conducted by the Composer. Maria Wiegand (Reger). Fröhliche Weihnachten (Ködel). 9.0—See Hamburg; at 9.25-9.45—See Deutschlandsender. 10.0-11.0—See Deutschlandsender.

BRNO (Czechoslovakia)

922 kc/s (325.4 m.); 32 kW. Transmits at intervals from 5.15 a.m. 5.15 p.m.-12.0 m't.—See Prague.

BRUSSELS (No. 1)

(Belgium) 620 kc/s (483.9 m.); 15 kW. 6.30-9.2 a.m.—Records; Gym; News. 12.0 noon—Christmas Records. 12.20 p.m.—Delatit (Tenor). 12.30—Weather; Shipping. 12.35—Salon Orchestra. Conductor: Féron. Kovacs (Cymbalom); Mondalt ("Cello"). 1.0—News; Records. 1.30—Mme Cardon-Leslie (Soprano). 1.40—Cinema Organ Records. 2.0—Art Notes. 4.55—News; Poems; Records. 5.20—Cardon (Clarinete). 5.40—Respighi Records with Commentary. 6.0—Talk for Ex-Servicemen; Records. 6.30—Brahms Music—Francis Duquenois (Pfte.) and Records, with Commentary by Dury. Caprice. Record: Movement, Symphony in D. 7.0—Motoring Notes. 7.15—Hélène Vegairinsky-Chabot (Songs). 7.30—News; Topical. 8.0-10.0—For Ex-Servicemen. 8.0—I.N.R. Symphony Orchestra. Conductor: Dejoncker. Rachel Piette (Songs) and Simonne De Clippel (Pfte.). Marche héroïque de la tribune (Gilson). "The Ogre"—A Modern Fairy-Tale about Father-Christmas (Van Looveren). Songs (de la Presse, Brumagne). Pfte. Concerto in D minor (Mozart). 9.0—Talk: Christmas at the Front; Announcements. 9.20—Orchestra, etc. (contd.). Werther (Vreuls). Songs (Goeyens, Tomasi). Nocturne (Brenta). Le matin (Mahy). Vers l'avenir (Gevaert). 10.0—News; Topical. 10.10—Records: Light Music; La Brabançonne. 11.0—"In Days of Old," with M. and Mme Alberty, Yvette Sam, Géodet and the Salon Orchestra. Conductor: Féron. 12.0 m't.—Midnight Mass from St. André's Benedictine Abbey, Lophen-lez-Bruges.

BRUSSELS (No. 2)

(Belgium) 932 kc/s (321.9 m.); 15 kW. Programme in Flemish. 6.30-9.5 a.m.—Records; Gym; News. 12.0 noon—Records; "Lohengrin" (Wagner) by the Berlin Opera Orchestra, Conductor: Wiegert.

Dec. 24 FRIDAY

12.30 p.m.—Radio Orchestra. Conductor: Douliez. 1.0-1.10—Shipping. 1.30-2.0—Song Records: Film Stars. 4.55—News. 5.0—Mozart Concert—Radio Orchestra, Conductor: Douliez, Béthume (Violin), and Records. Overture, "Figaro." Violin Concerto in G. Records of Lotte Lehmann: (a) An Chloé, (b) Die Verschwiegung. German Dances. 5.45—Talk by Paul de Vrec: A. Roland Holst. 6.0—Concert in D for Quartet (Chausson) by the Chamber Music Society. 6.45—Talk: The Ardennes and the Juras. 7.0—Swedish Folk-Songs by Lina Dauby. 7.30—News; Topical. 8.0—"L'Annonce faite à Marie" (Claudel, trans. Contrijn); Music by Milhaud. Orchestra. Conductor: André. Martenot Instrumental Ensemble and Vocal Quartet. 10.0—News; Topical. 10.10-11.0—Brenders Jazz Band.

BUCHAREST (Romania) 823 kc/s (364.5 m.); 12 kW. Relayed by Radio-Romania 160 kc/s (1,875 m.). Transmits at intervals from 4.30 a.m. 4.0 p.m.—Time; Julea Orchestra. 5.0—Art and Science Notes. 5.15—Julea Orchestra. 5.45—Talk. 6.0—Christmas Carols—Choir. Conductor: Baroncea. 6.35—Christmas Carols (Brediceano) sung by Aca de Barbu. 6.55—Educational. 7.15—"Vicleimul"—Nativity Play (Popa). 8.30—News; Sports Notes. 8.45—"Christmas"—Musical Programme.

BUDAPEST (No. 1) (Hungary) 546 kc/s (549.5 m.); 120 kW. Transmits at intervals from 5.45 a.m. 11.5 a.m.—Station Orchestra. 12.30—News; Orchestra (contd.). 11.30 p.m.—Pertis Cigány Band. 1.40—News; Cigány Band. 3.0—Report: The Christmas Tree at the National Museum. 4.0—Talk: The Empress Elizabeth. 4.30—Forrai Vocal Ensemble. 5.10—Christmas Poems; Records. 6.0—Chimes; Tihamér Tóth. 6.30—Antal Vázarhelyi (Organ), from the Coronation Church. 7.0—Station Band. Glockengeläute (Geszler). Christmas Suite (Perényi). Ave Maria (Berevács). Christmas Carol (Antalfy-Zsiros). Angelus (Liszt). Christmas Pastorale (Farkas). Weihnachtsbaum-Schmuck (Vincze). Star of Bethlehem (Losonczy). 8.0—"Christmas Eve" (Recorded). 9.45—Liszt Records. 11.0—Midnight Mass from the Chapel of the Royal Palace.

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

COLOGNE (Germany) 658 kc/s (455.9 m.); 100 kW. Transmits at intervals from 5.0 a.m. 11.0 a.m.-1.0 p.m.—See Stuttgart. 1.0—News. 1.15—See Hamburg. 2.0—For Children; Records. 3.0—"Land without Tears"—Play (Schnack); Music by Kauffman, Conductor: The Composer. 4.0—Christmas Songs and Carols. 5.0—"Christmas Bells" (Castelle). 6.0—Christmas Concert—Bielefeld Children's Choir with organ. 7.0—See Munich. 7.20—Christmas Songs. 7.50—Christmas Music—Soprano, Instrumentalists. 8.50—Christmas Music (arr. Wiltberger)—Station Choir, Conductor: Adams, and Instrumentalists. 9.30—Readings. 9.50-11.0—Concert on Records.

DEUTSCHLANDSENDER (Germany) 191 kc/s (1,571 m.); 60 kW. Transmits at intervals from 5.0 a.m. 11.0 a.m.—See Hamburg. 12.0 noon—Greetings. 12.15 p.m.—See Leipzig. 12.50—News. 1.0—Variety with Records. 2.0—Orchestra, Choir.

3.0—"Decorating the Christmas Tree"—Play (Althaus-Zöllner), with Carla Spletter (Songs), etc., Station Chamber Choir and v. Gezzy Band. 4.30—"Lighting the Candles." 5.0—Chimes and Carols. 6.0—"A Merry Christmas!"—Address by Herr Stoffregen, Director of Deutschlandsender and Berlin Stations. Station and Boys' Choirs, Lutz Quartet, Berlin Opera Wind Ensemble, Hildegard Erdmann (Songs). 7.0—See Munich. 7.20—"Christmas Candles"—Station Orchestra. Conductor: Dobrindt. Readings (Krug). 9.0—Emperor Quartet (Haydn) by the Fehse Quartet. 9.25—Reports: Christmas with the Defence Forces. 9.45—Weather. 10.0-11.0—von Gezzy Band, etc.

FRANKFURT (Germany) 1,195 kc/s (251 m.); 25 kW. Cassel, etc. See Sunday. Transmits at intervals from 5.0 a.m. 11.0 a.m.-1.0 p.m.—See Stuttgart. 1.0—For Children. 1.45—Records: Christmas Music of the Nations; Topical Talks. 3.0—Pastoral Songs and Music—Freiburg Chamber Trio for Old Music, with Anton Stngl. 3.30—Fairy-tale Music by Coblenz Municipal Orchestra. Conductor: Koslik. 4.30—Carols by a Blind Choir. Conductor: Wörner. 5.0—"Das blaue Licht"—Carols of Germans outside the Reich (Reimesch-Clauberg). 6.0—Records: Christmas Music. 7.0—See Munich. 7.20—"Christmas Chimes"—Concert with Commentary. Conductor: Bruchhaus. 8.30—"Ewiges Weihnachtswunder"—Sequence (Hartmann). 9.25—See Deutschlandsender. 9.45—Concert from Berlin. 11.0-12.0 m't.—See Stuttgart.

HAMBURG (Germany) 904 kc/s (331.9 m.); 100 kW. Bremen, etc. See Sunday. Transmits at intervals from 5.10 a.m. 11.0 a.m.—Band, Bremen Stadtmusikanten and Songs. 1.0 p.m.—News. 1.15—Music at Trifles. 2.0—Records of Christmas Songs. In the interval, Fairy Tale, "Alle Puppen tanzen"—Play (Albrecht); Music by Girnans. 4.0—Variety Concert—Station Orchestra and Dance Band. Strienz (Bass), Gregor (Organ). In the intervals, Talks. 6.0—Chimes; Christmas Meditation. 6.25—Christmas Carols. 7.0—See Berlin. 9.0—Christmas Serenade—Military Band. Conductor: Knoch; at 9.25-9.45—See Deutschlandsender. 10.0-11.0—See Deutschlandsender.

HILVERSUM (No. 1) (Holland) 160 kc/s (1,875 m.); 10 kW until 2.40 p.m.; 150 kW from 2.40 p.m. Also on Lopikerkapel, 722 kc/s (415.4 m.); 17 kW from 2.40 p.m. KRO Programme. 7.40-8.55 a.m.—Records. 9.40—Records. 11.10—Religious Address; Announcements. 11.55—KRO Melodists. Conductor: Lustenhouwer. Klein Jr. (Refrains). 12.40 p.m.—Records. 1.0—KRO Orchestra. Conductor: Reinards. 1.40—Haak (Organ) and Mia van der Bynden (Soprano). 2.45—Records. 3.55—Records: Chamber Music and Recitations. 4.55—KRO Melodists. Conductor: Lustenhouwer. Klein Jr. (Refrains). 5.40—Records. 6.0—KRO Melodists, etc. (contd.). 6.40—Announcements; Talk. 7.15—Records. 7.40—News. 7.55—KRO Orchestra. Conductor: Reinards; at 8.40—Talk. 9.25—Dutch Christmas Carols and Poems—KRO Choir. Conductor: Vermeulen; Poll (Recitations). 10.10—News. 10.20-11.40—Records.

FRIDAY (December 24)

HILVERSUM (No. 2)

(Holland)

995 kc/s (301.5 m.); 15 kW until 6.10 p.m.; 60 kW from 6.10 p.m.

7.40-9.40 a.m.—VARA Programme: Records.

9.40—VPRO Service.

10.0-11.40—VARA Programme.

10.0—Recitations.

10.20—Polak (Violin), Jong (Pfte.).

10.40—Recitations.

11.10—Jong (Organ).

11.40 a.m.—3.40 p.m.—AVRO Programme.

11.40—Records.

12.10 p.m.—Kovacs Lajos Orchestra. Nina Dolce (Violin).

1.40—Talk.

2.40—Records.

2.55—Palla (Organ), Lensky (Violin).

3.40-7.10—VARA Programme.

3.40—Records.

4.40—For Children.

5.10—The Lucky Birds, etc. Conductor: Vogel.

5.35—Amateurs' Hour.

6.10—Political Programme.

6.30—Jong (Organ).

6.40—Talk; Records; News.

7.10-8.40—VPRO Programme.

7.10—News; Talk.

8.40—v. d. Horst (Organ).

8.10—Talk.

8.40-10.20—VARA Programme.

8.40—Records.

9.10—Dramatic Programme with Music.

9.40—Records and Address.

10.10—News.

10.20—VPRO Religious Programme.

10.40 till Close—VARA Programme.

10.40—Titi Fermin (Soprano).

11.10-11.40—Records.

KALUNDBORG (Denmark)

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

Transmits at intervals from 6.0 a.m.

11.0 a.m.—1.0 p.m.—Unemployed Musicians' Ensemble. Conductor: Eckhausen.

1.30—Radio Orchestra. Conductor: Tuxen; at 2.20—Reading.

3.30—Christmas Service from Copenhagen Cathedral.

4.30—Weather.

4.45—Medici (Cello), Ove Peters (Pfte.). Sonata in A minor (Vivaldi). Sonata in F (Boccherini).

5.5—Records.

5.15—Greetings to Danish Seamen—Radio Orchestra. Conductor: Tuxen; Reading; Songs.

6.0—Time; News.

6.15—Reading.

6.30—Danish-Swedish Christmas Exchange Programme. Part I: Denmark. Radio Women's Choir and String Orchestra. Conductor: Lundqvist. Songs (Rung, Weyse, Balle). Part II: Sweden. Sepüman, Kerstin Torlind and the Radio Choir. Carols (Sjögren, Melin). Part III: Denmark. Nursery Rhymes by a Children's Choir. Part IV: Sweden. Christmas Carols (arr. Sköld) by Septiman and the Radio Choir.

7.0—Carillon Recital by Rung-Keller from Our Saviour's Church.

7.10—Christmas Eve Concert. Klæbel (Organ), Minna Poulsen (Violin), Lützhöft (Cello), Anna Hagen and Aase Ziegler (Songs), Ellen Carstensen Reenberg and Malberg (Recitations). Organ: Choral Fantasia (Buxtehude). Recitation (Lagerlöf). Adagio (Corelli). Songs: Tyrolse Folk Song. Andante (Bach). Poems (Larsen, Askjaer). Organ: Sonata d'Intervolatura (Zipoli). Songs.

8.30-9.15—Danish Church Chimes, with Commentary.

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.—1.0 p.m.—See Stuttgart.

1.0—News; Talk; Variety.

1.55-2.0—Markets.

2.30—Christmas Letters (Herr).

3.0—Christmas Variety—a Children's Choir, Punch, and a Band.

4.0—Christmas Vespers from the Traghelm Church.

5.0—Börschel Band.

5.40—In Gemiecourt Church—Christmas Memories of the Great War (Hartmann), with Organ.

6.10—Hitler Youth greet Germans abroad with Song—Sequin (Herr); Music by Gudschein.

7.0—See Munich.

7.20—Christmas Music—Station Orchestra and Choir, Sopranos, Baritone, Organ.

8.20—"Wald-Weihnacht"—Sequence (Winkler-Lindberg) with Music; Records.

9.25-11.0—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.—Leipzig Symphony Orchestra, Solo Voices and Pfte.

12.0 noon—Time; News.

12.15 p.m.—Orchestra etc. (contd.).

1.0—News; Christmas Records.

2.30—Fairy-tale.

3.0—Light Music from Saarbrücken—Orchestra, School Choir, etc.

4.0—Variety—Ilse Obrig and Playmates, etc.

5.0—Leipzig Trumpeter Corps.

5.30—Carols by St. Thomas's Choir.

6.0 (from Dresden)—Dresden Orchestra and Kreuzchor, Conductor: Hilmar Weber, Lotte Erben-Groll (Harpisichord) and Maria Stenz-Gmeindl (Harp).

7.0—Address from Munich.

7.20—Orchestra, etc. (contd.).

8.0—"Christmas Chimes of German Cathedrals" (Ambrosius)—Leipzig Symphony Orchestra. Conductor: Blumer.

9.0—"Gift Parade"—Records.

10.0-11.0—See Deutschlandsender.

LILLE (Radio PTT Nord)

(France)

1,213 kc/s (247.3 m.); 60 kW. Transmits at intervals from 6.30 a.m.

8.0 p.m.—Madelaine Valmalette (Pfte.).

8.30—Station Orchestra. Conductor: Soret. Mme Hennebelle (Soprano) and M. Hennebelle (Tenor). Overture, "Piccolino" (Guiraud). Ballet, "Henry VIII" (Saint-Saëns). Valse triste (Sibelius). Soprano: (a) Elsa's Prayer, "Lohengrin" (Wagner), (b) L'invitation au voyage (Duparc), (c) Après un rêve (Fauré). Petite suite (Bizet). First Movement from the Pastoral Symphony (Beethoven). Tenor: (a) Aria, "L'enfant prodigue" (Debussy), (b) Marine (Lalo), (c) Mon amour d'antan (Chausson), (d) La Danza (Rossini). Baltic Suite (Rubinstein). Jubel-Ouverture (Weber). Musiques intimes (Fl. Schmitt). Hungarian Song and Czardas, "Marika" (Derschatta). Scènes municipales (Tomasi). Serenade (Moszkowsky). Selection, "La Vivandière" (Godard). After the Concert, News.

MONTE CENERI

(Switzerland)

1,167 kc/s (257.1 m.); 15 kW. Transmits at intervals from 11.0 a.m.

6.45 p.m.—News.

7.0—"Lauda per la natività del signore" (Respighi) by Soloists, Choir and Instrumentalists, Conductor: Löhrer.

7.45-8.0 (approx.)—Talk: Before the Manger Crib.

MOSCOW (No. 1) (Russia)

172 kc/s (1,744 m.); 500 kW.

4.30 p.m.—Concerts.

9.0—English Programme.

10.0—French Programme.

11.0-12.0 m.t.—Spanish Programme.

MUNICH (Germany)

704 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.—Augsburg Dance Band.

12.0 noon—News; Topical.

12.15 p.m.—Classical Records.

1.0—News; Exchange.

1.15—See Berlin.

2.0-2.15—For Children.

2.40—Poems and Music.

3.0—Old Chamber Music from Augsburg; Reading.

4.0—Humorous Pictures (Schwerla).

5.0—Light Orchestra.

5.45—To be announced.

6.0—Opera Music—Station Orchestra, Soprano, Tenor, Pfte. Con-

ductor: Winter; at 7.0-7.20—Christmas Address by Hitler's Deputy, Rudolf Hess.

8.0—See Leipzig.

9.0—"Christmas"—Talk and Music.

9.20—Popular Melodies; Records.

10.10—"Heilige Nacht"—a Christmas Legend (Thoma) with the Tegernsee Musicians, from Egern am Tegernsee.

11.0 p.m.—1.0 a.m. (Saturday)—Christmas Concert on Records.

NAPLES GROUP (Italy)

Naples, 1,104 kc/s (271.7 m.); 10 kW. Florence (No. 1), etc. See Sunday.

6.0 p.m.—Light Songs; Topical.

6.25—Lullabies—Fantasia (arr. Pettinato).

7.0—See Rome (No. 1).

7.30—Cradle Songs—Fantasia.

8.0—See Rome (No. 1).

10.0—News.

OSLO (Norway)

260 kc/s (1,153.8 m.); 60 kW. Fredrikstad, etc. See Sunday.

Transmits at intervals from 7.30 a.m.

3.0 p.m.—Service.

4.0—Weather.

4.5-5.45—Music; Songs, Recitation.

5.56—News; Announcements.

6.15—Norwegian Music by the Bergen Radio Orchestra. Conductor: Johannessen (Violin).

7.15—Christmas Programme from Alesund.

7.30—Christmas Bells.

8.0—Christmas Bells and Music from Stavanger Church.

8.15-8.30—Pilgrims' Song (Hauge).

PARIS (Eiffel Tower)

(France)

1,456 kc/s (206 m.); 7 kW. Transmits at intervals from 6.30 a.m.

7.0 p.m.—Germaine Cernay (Songs) and Mme Rey-Gaufres (Pfte.). Oriental Folk Songs (Beydts-de Saix). Choral (Bach). Gigue (Bach). Romance (Schumann). Novelette (Schumann). Oriental Folk Songs (Beydts).

7.30—News.

8.0—Poetry—Robert Honnert and Madeleine Milhaud.

8.30—Soirée, Part I: "The First S.A.I. Concert." Part II: "La quinzaine sonore"—Radio Fantasy (P. and R. Constantin-Brive).

10.30—Records.

11.0-11.15—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; Records.

12.25—News; Exchange; Records.

1.15—Amusements; Records.

2.0, 3.45 and 4.35—Exchange.

5.0—News; Cabaret.

6.0—Exchange; News.

6.10—Talk; Records.

6.25—For Young People.

6.55—Talk; Racing.

7.0—Topical; Sports; Amusements.

7.13—The Week's Event.

7.18—Records of Yolanda.

7.45—Humorous Items. Claude Dauphin and Babys.

7.50—Three "Gilles and Julien" Successes.

8.0—Topical.

8.10—"Summer"—Records.

8.25—"Si, je gagnais les trois millions!" with Charpin and Brancato.

8.40—"La bonne histoire."

9.0—Variety.

PARIS (PTT) (France)

695 kc/s (431.7 m.); 120 kW. Transmits at intervals from 6.30 a.m.

2.30 p.m.—"Le jardinier de Samos" (Ibert).

4.0—Jany Delille (Songs).

4.15—Reading; Singing Lesson.

5.0—Orchestra. Conductor: Ellis. Selection, "Tales of Hoffmann" (Offenbach). Pastoral (Franck). Selection, "Le Jongleur de Notre-Dame" (Massenet). La voix des cloches (Luigini). Pieces (Boëllmann): (a) Ronde de nuit, (b) La veillée, (c) Tournoi.

6.0—Educational.

6.30—Germaine Huber (Songs).

6.45—Jeanne Champagnat (Pfte.). Un sospiro (Liszt). Evocation (Albeniz). Reflets dans l'eau (Debussy).

7.0—News; Topical.

8.0—"Noël 37"—Radio Fantasy (Groffe), Orchestra, etc. Conductor: André.

8.30 (also Marseilles (PTT) and Alpes-Grenoble (PTT))—Concert from the Conservatoire. National

Orchestra. Conductor: Inghelbrecht. The Schola Saint-Antoine and Raugel Choirs. Mmes Turba-Rabier, Maria Branze, Léna Murat, Madeleine Milhaud, Jeanne Bathori, MM Cathelat, Rousseau, Argentin, Toscane. Part I: "Les enfants à Bethléem" (Pierne). Part II: "Pastorale de Noël" (Hahn).

10.30—News.

10.45—Warms Dance Band.

11.15—Old Christmas Carols from Saint-Germain - l'Auxerrois. The Petits Chanteurs à la Croix de Bois. Conductor: M. l'Abbé Maillet.

11.57—Warms Dance Band.

12.15 - 2.15 a.m. (Saturday)—Yatove Dance Band.

PARIS (Radio-Paris)

(France)

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

6.28 a.m.—Programmes; Records.

6.40—Time; News; Gym; Records.

7.15—News; Records.

8.0-9.20—News; Programmes; Records.

10.15—Programmes; Records.

10.45—Christmas Tales; Records.

11.15—Le Bal de Béatrice d'Este (Hahn). Conductor: The Composer.

11.30—Modern Music in the Liszt, Chopin, Offenbach, Mendelssohn and Mozart manner—Pfte. Recital by Maurice Roget.

11.45—Markets.

12.0 noon—Bouillon Orchestra.

1.0 p.m.—Time; News; Exchange.

1.30—Mme Gauley (Songs).

1.45—Bouillon Orchestra.

2.0—Programmes; Reading; Anecdotes.

2.25—Review; Exchange; Records.

2.45—Songs.

3.15—Talks; Exchange.

4.0—Talk; America.

4.15—Raymonde Astor (Songs).

4.30—Poems; Exchange; Markets.

5.0—Chamber Music—Mme Manchon-Théiss (Pfte.). Mme Bonny-Pellieux (Songs) and the Capelle Quartet. Pfte. Sonata in D (Mozart). Songs (Gluck, Mozart). Pfte.: (a) Excerpts, "Berceuse" (Rivier), (b) Romance and Intermezzo (Harsanyi), (c) Toccata (Lajta). Songs (Bordes, Poulenc). Quartet (Borodin).

6.0—Educational.

6.30—For Women; Films.

6.58—Programme Notes; Educational.

7.30—Talks.

7.59—Time; Political Review.

8.8—Foreign Affairs.

8.15—Martino (Violin). The Fountains of Arethusa (Szymanowski). Caprice (Auber).

8.30—Two Plays (Rostand) presented by Rosemonde Gérard: (a) "Les Romanesques"—Three Acts in Verse, (b) "Les deux pierrots" or "Le souper blanc"; at 9.30 (approx.)—News; For Ex-Servicemen.

10.30—Dance Records.

10.45—Time; News.

11.0—Christmas Eve Programme with the Noyon Choir, etc.

11.50—See Strasbourg.

1.0 - 3.0 a.m. (Saturday)—Visciano Dance Band.

PRAGUE (Czechoslovakia)

638 kc/s (470.2 m.); 120 kW. Transmits at intervals from 5.45 a.m.

5.15 p.m.—Nemec (Organ).

5.30—Record: Christmas Chimes.

5.32—Bible Readings with Organ.

5.44—Children's Choir.

6.0—Christmas Greetings—Programme with Station Orchestra and Choir. Conductor: Parik. Tauberová (Soprano) and Daniel (Violin) (Recorded). Overture, "The Bartered Bride" (Smetana). Christmas Toast. Scene, "Dalibor" (Smetana). Toast. Violin and Orchestra: Polonaise (Fibich). Toast. The Blessed (Janáček). Toast. Movement from the Serenade for Strings (Suk). Toast. Furiant (Smetana). Toast. Shakespeare Festival March (Smetana). Toast. Christmas (Weinberger).

7.0—"Christmas Eve in the Mountains"—Sequence (Recorded).

7.15—Christmas Party (Recorded). Station Orchestra. Conductor: Parik. Choir, etc. Pastoral from the Christmas Oratorio (Bach). Movement from the Cello Concerto in B minor (Dvořák). Et incarnatus (Mozart). The Bells (Byrd). Excerpts, "Raduz and Mahulena" (Suk). Concert Piece (Saint-Saëns). Solo Voices, Choir and Orchestra: Born this Day (Jeremiás).

8.0—Christmas Message by the President, Dr. Beneš.

8.25—FOC Orchestra. Conductor: Smetáček (Recorded). Overture, Mein Heim (Dvořák). Slav Dance (Dvořák). Suite, "Lazy John" (Nedbal).

9.0—Short-Wave Broadcast: Christmas Greetings to Czechs abroad.

9.25—Moravska - Ostrava Station Orchestra (Recorded). Turkish March (Mozart). Andante, "La Source" (Delibes). Piece (Dvořák). 'Cello and Pfte: Le Cygne (Saint-Saëns). Scherzo (Mendelssohn). Träumerei (Schumann). Pfte.: The Minute Waltz (Chopin). Bagatelle (Suk). Waltz in E (Dvořák). Polka for Two Flutes and Strings (Sibelius). Gopak (Mussorgsky).

10.0—Christmas Greetings (Recorded).

10.10—Country Pictures (Malát) by the Muzik Salon Quartet.

10.25—Report from a Barracks at Kocise; Record.

11.0-12.0 m.t.—Midnight Mass from St. Vitus' Cathedral.

RADIO-NORMANDIE

(France)

1,113 kc/s (269.5 m.); 15 kW.

6.45 a.m.—Military Band.

7.0—Chansonnettes.

7.15—News; Press Review.

7.45—Physical Exercises.

8.0—Light Music.

9.15—Military Band.

9.30—Popular Music; Records.

10.15—Light Music.

11.0—Records and Light Music.

12.0 noon—Concert. La chanson des yeux clos (de Buxeuil). Mon coeur est tombé (Gabaroché). The Forge in the Forest (Michaëlis). Tell me to-night (Spoliansky). La charmante petite flûte (Emer). Jeunes mariés (Bach - Laverne). Fire Magic, "The Valkyrie" (Wagner). La Grainvillaise (Chesnais). La coco (Ouvrard). The Song of Marinette (Tagliafico). My friend Elisabeth (Katscher). La guinguette a fermé ses volets (Montagné). La fanfare de Mouillepot (Bach-Laverne). Là-haut sur la butte (Guindani). La java des pompons rouges (Dequin). Selection, "Lakmé" (Delibes). Laissez-moi t'aimer toujours (Solry). La cucaracha (D'Lozah). Java (Worting). Excerpt, "La dame blanche" (Boieldieu); at 12.45 p.m.—News.

2.0—Light Music.

3.30—Jane and John.

3.45—Records and Light Music.

5.0—Popular Music.

5.15—For Children.

5.30—Light Music.

6.0—Children's Corner.

6.45—Talk; News; Racing.

7.0—Chansonnettes.

7.25—News.

7.45—Saxophone Solos.

8.0—Records of Noël-Noël.

8.20—Tombola Results.

8.40—Variety Programme.

9.0—Die schöne Müllerin (Schubert), by Germaine Martinelli (Soprano).

9.30—Old Dance Music.

11.0 p.m.—1.0 a.m. (Saturday)—Midnight Mass from Rouen Cathedral.

RENNES-BRETAGNE

(France)

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

6.30 p.m.—Concert from Angers. Conductor: Bilewski. Overture, "Titus" (Mozart). A Musical Snuff-box (Lyadov). Le Nil (Leroux). Selection, "La fille de Madame Angot" (Lecocq). Valse caprice (Rubinstein). Festival March (Büsser).

7.0—News.

7.30—Concert from Limoges (PTT).

8.0—News; Records; Talk.

8.30—"Christmas in Brittany."

10.10-11.0—See Paris (PTT).

11.0—See Paris (Radio-Paris).

11.50 p.m.—1.45 a.m. (Saturday)—Midnight Mass from Nantes Cathedral. Messe solennelle (Franck). Pastoral (Noyon). Christmas Carols.

ROME GROUP (Italy)

Rome (No. 1), 713 kc/s (420.8 m.); 50 kW. Bari (No. 1), etc. See Sunday.

Transmits at intervals from 6.45 a.m.

3.0 p.m.—Nathan Milstein (Violin) from the Academy of St. Cecilia. In the interval, News.

6.30—Records.

7.0—Time; News.

7.20—Government Notes.

8.0—"The Wake"—One-Act Play (Borghesio).

8.30—Tourist Talk.
8.40—Christmas Eve Concert.
10.0—News.
10.15—Ermete Forti (Organ).
10.55—Midnight Mass.

SOTTENS (Switzerland)

677 kc/s (443.1 m.); 100 kW.
Relayed by Geneva, 401 kc/s (748 m.).
11.29 a.m.—12.45 p.m.—Time; News; Records.
4.0—To be announced.
5.0—French Music—Radio Suisse romande Orchestra. Conductor: Rompa.
6.0—Talk: Paul Valery.
6.10—Violin Records.
6.20—Christmas Tales; Music.
6.50—News; Christmas Poems.
7.15—"L'Enfance du Christ"—Oratorio (Berlioz) (Recorded). Frank Guibat, Vevy-Montreux Teachers' Mixed Choir and the Radio Suisse romande Orchestra. Conductor: Boller.
8.20—"Spring"—One-Act Play (Maurette), by the "Deux Masques" Company.
9.0—Records.
9.30—Christmas Eve Concert from Lausanne Cathedral. Radio Suisse romande Orchestra. Conductor: Haug. Falier Choir, Tenor Ensemble of the Lausanne Choral Society, Vocal Quartet, Caro Falier (Contralto), Pastorate (Bach-Gui). Sixteenth-Century Choral, Nuit lumineuse. Psalm No. 100 (Schütz). Old Carols. Christmas Symphony (Haydn). Excerpts, Christmas Cantata (Reichel). Reading. Psalm No. 136 (Schütz).
11.0 p.m.—12.15 a.m. (Saturday)—Midnight Mass from St. Nicholas Cathedral, Fribourg.

STOCKHOLM (Sweden)

704 kc/s (426.1 m.); 55 kW.
Motala, etc. See Sunday.
Transmits at intervals from 6.20 a.m.
3.30 p.m.—Asti (Violin), Broström (Viola) and Muchow (Flute). Sonata in G (Mozart). Serenade (Weber).
4.5—Christmas Service from St. James' Church.
5.0—"Around the Christmas Tree."
6.0—Weather; News.

NATIONAL

For Time Signals, see Monday.
10.30 a.m. (D)—Weather Forecast.
10.45 (D)—Records.
11.0 (D)—Christmas Morning Service from Bristol Cathedral.
12.0—Medvedeff's Balalaika Orchestra.
12.30 p.m.—Dance Records.
1.0 (D)—Theatre Orchestra.
1.45 (D)—Ambrose and his Orchestra.
2.45—BBC Military Band.
3.0—His Majesty the King. BBC Military Band (ctd.).
3.30—Hastings Municipal Orchestra: Robert Easton (Bass).
4.40—Real Christmas Weather: J. H. Martin and Quintin Riley.
5.0—Harry Roy and his Band.
6.0—Christmas Evening Service.
6.50—Sports Bulletin.
7.0—Christmas Party, with Billy Bennett, Tommy Handley, The Two Leslies, Stainless Stephen, Al and Bob Harvey, Anona Winn, Alma Vane, Bertha Willmott, and Elsie and Doris Waters.
9.0—News Summary.
9.10—Appeal on behalf of The British Wireless for the Blind Fund, by Christopher Stone, D.S.O., M.C.
9.20—"The Keeping of Christmas" (in Europe and the Mediterranean Lands).
10.30—George Elrick and his Music Makers.
10.40—Roy Fox and his Band.
11.20—Sydney Lipton directing the Grosvenor House Dance Band.

REGIONAL

For Time Signals, see Monday.
10.30-10.45 a.m. (ex. Western)—National.
11.0 (Western)—National.
12.0 (ex. Western)—BBC Northern Orchestra.
1.0 (ex. Western)—Ernest Butcher (Baritone); Alec Rowley, Edgar Moy (Ptes.).
2.0 (ex. Western)—Reginald Foort (BBC Theatre Organ).
2.30 (ex. Western)—"Practical Cats": T. S. Eliot.
2.45—BBC Military Band.
3.0—His Majesty the King. BBC Military Band (ctd.).
8.30—Hastings Municipal Orchestra: Robert Easton (Bass).

6.15—"Engineer Björk and Family"—Sketch (Alice Svensk).
6.30—Danish-Swedish Christmas Exchange Programme. (For details see Kalundborg).
7.0—Christmas Greetings from America.
7.45—Christmas Music—Märta Byström and Ally Hallman (Songs), and Erling (Organ). Songs (Lindberg, Wikander). Organ (a) Weihnachts (Reger), (b) The Shepherds on the road to Bethlehem (Gläser), (c) Fantasia on O, du selige (Lux). Songs (Sköld, Riccius, Adam).
8.15—Greetings from Overseas.
8.50-10.30—Records.

STRASBOURG (France)

859 kc/s (349.2 m.); 100 kW.
Transmits at intervals from 6.30 a.m.
5.15 p.m.—Lucie Rauh (Contralto), Mme Kauffmann - Briancan (Harp) and Briancan (Oboe). Contralto: (a) 14th Century Children's Carol, (b) 17th Century Carol, (c) Wiegenglied (Brahms). Pastorate for Harp and Oboe (Soulage). Contralto: Two Old Carols, Harp Solo. Contralto: (a) Noël Lorrain (Betbeze), (b) L'adoration des bergers (de Manziarly), (c) Trois petits garçons (Urgal), (d) Carol (Gounod).
6.0—Talks.
6.30—See Rennes-Bretagne.
7.0—News.
7.30—Concert from Limoges (P.T.T.).
8.0—News (German, French).
8.30—"Mr. Scrooge's Extraordinary Christmas"—Four-Act Play in German after Dickens's "A Christmas Carol" (Nogués).
10.0 (approx.)—"Christmas throughout the World"—Radio Fantasy (Schneider).
10.30—News (French, German).
11.0—Christmas Eve Festival from the Temple Neuf.
11.50—Programme from Strasbourg Cathedral: Christmas Chimes; Te Deum; Midnight Mass.

STUTT GART (Germany)

574 kc/s (522.6 m.); 100 kW.
Transmits at intervals from 5.0 a.m.
11.0 a.m.—Orchestra, Soprano, Contralto, from Saarbrücken.
12.0 noon—Time; News.

12.15 p.m.—Orchestra, etc. (contd.).
1.0—See Frankfurt.
1.45—Records: Light Music.
3.0—See Deutschlandsender.
4.30—Hayn Madrigal Society.
5.0—"Christmas Candles"—Concert. Orchestras, Choir, Band, Stuttgart Folk-Music Ensemble, etc.; at 7.0-7.20—Address from Munich.
8.15—Light Music from Pforzheim, with Schmitt-Walter (Tenor).
9.25—See Deutschlandsender.
9.45—Concert from Berlin.
11.0 12.0 m't.—Christmas Concert—Station Orchestra and Choir, with Solo Voices and Instruments.

TOULOUSE (Radio-Toulouse) (France)

913 kc/s (328.6 m.); 60 kW.
Transmits at intervals from 8.0 a.m.
6.0 p.m.—Tango Band.
6.15—Opera Arias.
6.40—Christmas Carillon.
6.45—Chansonnettes.
6.55—News; Sports.
7.15—Marches and Soldier Songs.
7.40—Si je lui dis non (Oberfeld).
7.45—Light Music.
8.0—"Christmas"—Light Music.
8.45—Light Music.
9.30—"C'est la Noël"—Fantasy. Le petit Jésus sauveur adorable. Les anges de nos campagnes Noël d'enfants. Noël des bébés. En cette nuit.
10.0—News.
10.15—English Concert.
11.15—Christmas in Provence—Carols.
11.35—Christmas Music.
11.50—News.
12.0 m't.—Christmas Carols.
12.30 a.m. (Saturday)—Light Music.
1.0—Jazz Band.
1.30-2.0—Dance Music.

TURIN GROUP (Italy)

Turin (No. 1), 1,140 kc/s (263.2 m.); 7 kW. Milan (No. 1), etc. See Sunday.
Transmits at intervals from 6.45 a.m.
3.0-7.30 p.m.—See Rome (No. 1).
7.30—Light Music.
7.40 (Rome (No. 2) only)—News (English).
8.0 till Close—See Rome (No. 1).

VIENNA (Austria)

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

Hours of Transmission in Greenwich Mean Time.

ATHLONE (Ireland)

565 kc/s (531 m.); 100 kW.
Dublin, etc. See Sunday.
10.30-11.15 a.m.—High Mass from Mount St. Joseph's Abbey, Roscrea.
1.30-3.0 p.m.—Records.
5.0—Concert from the Children's Hospital.
6.0—Sacred Concert from the Sistine Chapel, Rome.
7.0—Mr. de Valera's Greeting.
7.15—We have been working to-day.
7.55—Christmas Songs and Carols by a Vocal Quartet.
8.35—"Christmas under the Cross"—Missionaries' Talk.
9.10—The Holy Family in Gaelic Legend and Song—Ní Scolaíde.
9.30—Variety.
10.30-12.0 m't.—Have a Ceilidhe in Your Home.

BERLIN (Germany)

841 kc/s (356.7 m.); 100 kW.
5.0-7.0 a.m.—See Hamburg.
7.20—Records.
7.55—Chimes and Service from the Potsdam Garrison Church.
8.30—Mozart and Haydn Records.
9.0—Derksen Band.
10.20—Caruso Records.
11.0—Libiszowski Orchestra and Bund Pfte. Duo.
1.0 p.m.—Greetings.
1.10 (approx.)—Records.
2.0—"Happy Christmas!"—Folk Songs. Georg Höllger (Baritone), Julius Dahlke (Pfte.), Gerhard Puchelt (Pfte.) and Records.
3.0—See Cologne.
5.0—Fröhlich Band.
6.0—Sports.
6.15—Hungarian-Italian Military Concert (Recorded). Part I. Honvéd Band, Conductor: Fegydy. Rakoczy Overture (Keler-Bela). Hunyadi March (Erkel). Part II. Guardia di Finanza Band, Conductor: D'Elia. Eritrea (D'Elia). Overture, "Semiramide" (Rossini). Dance of the Hours (Ponchielli).
7.0—Station Orchestra, Conductor: Heinrich Steiner. Elisabeth Reichelt (Soprano); Walther Ludwig (Tenor).
9.0—News; Sports.

FRIDAY (December 24)

Transmits at intervals from 5.45 a.m.

5.0 p.m.—Christmas Music and Songs.
6.0—Time; News.
6.10—Christmas Programme.
6.35—Selection, "Hansel and Gretel" (Humperdinck) by the Vienna Chamber Orchestra. Conductor: Auderieth.
7.0—Christmas Concert—Station Orchestra. Conductor: Holzer. Jung-Uranla Choir. Conductor: Lehner. Maria Schober (Soprano), Elfriede Hedmont (Contralto), Bagnovini (Tenor), Fukar (Bass), and Klapper (Pfte.). Address by Cardinal Archbishop Theodor Innitzer. Ihr Kindlein, o kommet (Schulz). Pastoral Symphony, "The Messiah" (Handel). Christmas Carols: (a) Die heiligen drei Könige aus Mohrenland (Jakobi), (b) Zu Bethlehem geboren ist uns ein Kindelein (Becker). Austrian Christmas Music (Riedinger). Christkind (Cornelius). Christbaum (Cornelius). Stille Nacht, heilige Nacht (Gruber). Es hat sich heut eröffnet das Himmels-tor. Schlaf, Jesus zart. Dort dromat am Bergal. Weihnachten (Königsberger).
8.0—Reading.
8.25—Vienna Chamber Orchestra. Conductor: Auderieth. Music to a Christmas Fairy Tale (Wetschy). Pastoral Symphony in D (Rosetti). Serenade (Fiedler).
9.10—News.
9.25—Classical Records.
10.30—Programme from St. Stephan's Cathedral. Chimes, Organ Prelude, Christmas Carols.
11.0—Midnight Mass from St. Stephan's Cathedral. Cathedral Choir and Orchestra. Conductor: Habel. Else Schmidt (Soprano), Emilie Rutschka (Contralto), Tomek (Tenor), Zeindler (Bass), and Walter (Organ). Introit: Dominus dixit, from the Coronation Mass (Mozart). Gradual (Witt). Offertory: Laetetur coeli (Haller). Christus natus est (Preyer). Communion: In splendoribus.
Transmits at intervals from 5.45 a.m.
5.0 p.m.—Christmas Music and Songs.
6.0—Time; News.
6.10—Christmas Programme.
6.35—Selection, "Hansel and Gretel" (Humperdinck) by the Vienna Chamber Orchestra. Conductor: Auderieth.
7.0—Christmas Concert—Station Orchestra. Conductor: Holzer. Jung-Uranla Choir. Conductor: Lehner. Maria Schober (Soprano), Elfriede Hedmont (Contralto), Bagnovini (Tenor), Fukar (Bass), and Klapper (Pfte.). Address by Cardinal Archbishop Theodor Innitzer. Ihr Kindlein, o kommet (Schulz). Pastoral Symphony, "The Messiah" (Handel). Christmas Carols: (a) Die heiligen drei Könige aus Mohrenland (Jakobi), (b) Zu Bethlehem geboren ist uns ein Kindelein (Becker). Austrian Christmas Music (Riedinger). Christkind (Cornelius). Christbaum (Cornelius). Stille Nacht, heilige Nacht (Gruber). Es hat sich heut eröffnet das Himmels-tor. Schlaf, Jesus zart. Dort dromat am Bergal. Weihnachten (Königsberger).
8.0—Reading.
8.25—Vienna Chamber Orchestra. Conductor: Auderieth. Music to a Christmas Fairy Tale (Wetschy). Pastoral Symphony in D (Rosetti). Serenade (Fiedler).
9.10—News.
9.25—Classical Records.
10.30—Programme from St. Stephan's Cathedral. Chimes, Organ Prelude, Christmas Carols.
11.0—Midnight Mass from St. Stephan's Cathedral. Cathedral Choir and Orchestra. Conductor: Habel. Else Schmidt (Soprano), Emilie Rutschka (Contralto), Tomek (Tenor), Zeindler (Bass), and Walter (Organ). Introit: Dominus dixit, from the Coronation Mass (Mozart). Gradual (Witt). Offertory: Laetetur coeli (Haller). Christus natus est (Preyer). Communion: In splendoribus.

WARSAW (Poland)

224 kc/s (1,339 m.); 120 kW.
Cracow, etc. See Sunday.
Transmits at intervals from 5.15 a.m.
2.45 p.m. (from Lódz)—Carols by the Zjednoczenie Choir and Orchestra.
3.0 (from Cracow)—"Cantique de Noël de Jésus"—Play with Music.
3.40 (from Lwów)—Carols by the Salon Trio.
4.0 (from Wilno)—"Adam Mickiewicz"—Play (Dobaczewska).
4.30 (from Katowice)—Christmas Music. Brachocki (Pfte.). Pastorate from the Christmas Concerto (Corelli - Godowski). Christmas Night (Liapunow). Christmas Night (Busoni). Prelude and Fugue, Christmas in Poland (Brzezinski). Scherzo in B minor (Chopin).
5.0—Christmas Programme.
5.50—Station Choir, Solo Voices and Orchestra. Conductor: Fitelberg. Choir and Orchestra: Pastorales (Wiechowicz). Nuit de Noël (Delage). Carols (Marx, Cornelius, Tiersot, Respighi, Nin, Emmanuel, Ravel). Duet: Carol (Moniuszko). Choir and Orchestra: Christmas Overture (Scott).
7.20 (from Poznan)—Christmas Address by His Eminence Cardinal August Hlond.
7.30 (from Lwów)—"The Christmas Tree"—Programme by Budzynski and Bronczyk.
8.15—Station Orchestra. Conductor: Górzynski. Suite (Coates). Romance (Górzynski). Episode (v. Raust). Das Blumenwunder (Künneke). Selection, "Cinderella" (Coates). Berge au paturage (Górzynski). Roses in the Snow (Siede). Lullaby (King). Novallette (Carabelli). Polonaise solennelle (Górzynski). Two Songs without Words (v. Raust). Intermezzo (Fischer). In the Tulleries (Amadei). Intermezzo (Kalkman). Berceuse (Popiel). The Angels' Song (Wolf-Ferrari).
10.0 (from Poznan)—Christmas Carols of Eastern Europe.
10.45 p.m.—12.0 m't.—Midnight Masses from Village Churches.

Dec. 25 SATURDAY

BEROMÜNSTER (Switzerland)

556 kc/s (539.6 m.); 100 kW.
Relayed by Basle and Berne, 1,375 kc/s (218.2 m.).
9.0 a.m.—Christmas Music by the Bümpliz Music Society.
9.15—Protestant Address.
10.0—Festival Music.
10.30—"Christmas in Samoa"—Christmas Story (Höppner).
10.45—Music of the Baroque Period.
11.25—Announcements.
11.30—News.
11.40—Zürich Radio Orchestra.
12.25—Christmas Music (Walter Rein).
12.50—"Chez Brand"—Christmas Story (Werner Bula).
1.20—Chamber Music (Buxtehude and Leclair) by the Berne Pfte. Trio.
1.45—Reading (Gotthelf).
4.0 (from Berne)—Christmas Address by Dr. Franziskus von Streng, Roman Catholic Bishop of Basle and Lugano, with Music by the St. Cecilia Society of Berne.
4.45—Radio Orchestra.
5.30—For Children.
6.0—See Rome (No. 1).
7.0—Weather; News.
7.10—Otto Schaefer (Organ).
7.40—"Marienlieder" (Zlicher) by Dora Garreaux (Soprano) and the Zurbrügg Quartet.
8.0—Als ich Christfreude holen ging (Peter Rosegger).
8.20—"Natale" (Alberto Gentili).
9.0—Old Christmas Music.
9.25-9.30—News; Programmes.
BORDEAUX-LAFAYETTE (France)
1,077 kc/s (278.6 m.); 35 kW.
Transmits at intervals from 7.0 a.m.
8.15 p.m.—"Rose of France" (Romberg).
10.30 (approx.)—News.

BRATISLAVA (Czechoslovakia)

1,004 kc/s (298.8 m.); 13.5 kW.
Transmits at intervals from 5.45 a.m.
7.45 a.m.—Meditation.
8.0—Roman Catholic Service from St. Martin's Cathedral.
9.0—Roman Catholic Address.
9.15—Christmas Carols.
9.35—Literary Programme from Kosice.
10.0 a.m.—1.5 p.m.—See Prague.
2.30—Station Orchestra. Conductor: Schimpl. Overture, "In the Well" (Bledek). Ballet Music (Nedbal). Slovak Suite (Novák), Excerpts, "The Nutcracker" (Tchaikovsky). Polichinelle (Prozavnik).
3.50—"Christmas in the Tatras"—Carols and Folklore from Kosice.
4.15—See Prague.
4.35—Talk; Records.
5.0-5.45—Hungarian Transmission: Meditation; Carols.
5.45-10.30—See Prague; at 9.15—News in Hungarian.

BRESLAU (Germany)

950 kc/s (315.8 m.); 100 kW.
Relayed by Gleiwitz, and Görlitz, 1,231 kc/s (243.7 m.).
5.0-7.0 a.m.—See Hamburg.
7.0—Motto.
7.10—Folk Music Records.
7.50—News; Greetings.
8.0 (from Gleiwitz)—Service.
8.30—Purcell Songs by Drosihn (Baritone), and Hattwig (Harpischord).
9.0—Christmas Music. Kynast Orchestra, Violin, Pfte. Duo.
10.0 (from Görlitz)—Bach Music by Schneider (Organ) from Bautzen Cathedral. Fantasia in G. Pastorate in F. Prelude and Fugue in E flat.
10.45 (from Gleiwitz)—A Fairy-tale.
11.0 (from Gleiwitz)—Light Orchestra.
1.0 p.m.—News.
1.10—A Christmas Fairy-tale (Hara), Music by Sczuka, with Hattwig and Bollon (Tenor).

SATURDAY (December 25)

Charlotte Ziegler (Soprano), Elisabeth Pfeffer (Contralto), Blume (Tenor), Rothensee (Baritone).
 1.30—A Christmas Surprise Programme. Station Dance Band. Conductor: Günther. The Five Melodists and Paul Schuch (Humorist).
 2.20—"Little Kay and the Snow Queen"—Fairy-tale after Hans Andersen (Breyholdt).
 3.0—See Cologne.
 5.0—Talk: Arctic Christmas.
 5.20—"Das Schicksal unseres Erbes"—Sequence (Kanig).
 6.10 (from Görlitz)—Festival Concert. Military Band and Bunzlau Municipal Orchestra. Conductor: Arndt. Part I. Light Music. Part II. Waltzes and Marches.
 9.0—News; Sports.
 9.30-11.0 (from Görlitz)—Old and New Dance Music. Military Band, etc.

BRNO (Czechoslovakia)

922 kc/s (325.4 m.); 32 kW. Transmits at intervals from 5.45 a.m.
 8.0 a.m.—Roman Catholic Service.
 9.0 a.m.—1.5 p.m.—See Prague.
 1.5-1.20—For Farmers (German).
 2.30—See Bratislava.
 3.50—"The Star of Bethlehem"—Nativity Play (Bor, after Herrmann).
 4.15—See Prague.
 4.35—German Transmission: Christmas Carols by a Male Voice Choir. Perl Salon Orchestra. Ella Kremser (Soprano). Overture, "Die Fledermaus" (Strauss). The Clock is playing (Blaauw). Songs, "Der arme Jonathan" (Millöcker), "La belle Hélène" (Offenbach), "Schön ist die Welt" (Lehár). Waltz, Estudiantina (Waldteufel). Selection, "The Mikado" (Sullivan).
 5.45-10.30—See Prague.

BRUSSELS (No. 1)

(Belgium)
 620 kc/s (483.9 m.); 15 kW.
 6.30-9.0 a.m.—Records; News; Gym.
 9.0—Talk; Records.
 10.0—Loiseau Orchestra.
 10.30—Reading (Daudet).
 10.40—Mendelssohn Records.
 11.0—Loiseau Orchestra. Daddy Long-Legs (Wright). Esquisses provençales (Popy).
 11.15—Music-Hall Records.
 11.30—Loiseau Orchestra. Overture, "Les Saltimbanques" (Ganne). Dream Garden (King). Selection, "Nina Rosa" (Romberg - Salabert). Ballgeflüster (Meyer-Helmund). The Nursery Clock (Williams). Military March (Schubert).
 12.0 noon—Records.
 12.30 p.m.—Weather; Shipping.
 12.35—Light Orchestral. Conductor: Souris. Dance of the Gnomes (Eilenberg). The Golden Horn (Jessel). La vieille boîte à musique (de Séverac). Les petits soldats de Plomb (Piermé). The Musical Box (Lyadov). Valse caprice (Rubinstein). Kukokamo-Estaplo (Lincke).
 1.0—News.
 1.10—Waltzes—Orchestra, Conductor: Souris. Concert Waltz (Moszkowski). Valse des Fleurs (Tchaikovsky). Waltz (Chopin).
 1.30—Records: Christmas Music.
 2.0—Art Notes.
 2.5-3.0—For Women.
 3.15—Salon Orchestra, Conductor: Féron; Rubeau (Tenor); Mme Berger (Songs). Hungarian Fantasia (Szekely). Tenor: (a) Serenata, (b) Ideale (Tosti). Ave Maria (Schubert). Seventeenth-Century Carol of Provence (Saboly-Tiersot). Carols of Auvergne (Versepu). English Melody (Franco). Tenor: (a) D'une Prison (Hahn), (b) Ein Traum (Grieg). Song and Waltz (Reyny). Two Carols (Darcieuc, Févry). Vienna, City of my Dreams (Siczynsky). Slav Melody (Dury).
 4.0—Records: Christmas Carols of the Nations—Austria, Germany, Denmark, Italy, Poland, Sweden, Switzerland, Yugoslavia and Belgium.
 4.30—Talk: A Visit to Namur.
 4.40—Records: Quartet in F (Beethoven).
 5.0—Laura Declercq (Pfte.); Rachel van Hecke (Violin). Pfte.: Chromatic Fantasia and Fugue (Bach). Violin: (a) Concerto in C (Haydn), (b) Scherzo Tarentella (Wieniawski).

5.30—"C'est nous les riches"—Play for Children (Remy-Houbau) with Children's Choir.
 6.0—See Rome (No. 1).
 7.0—Roman Catholic Review by Mgr. Picard.
 7.15—Bénédiction du feu (Aicard); Old Carols.
 7.30—News.
 8.0—"L'Enfance du Christ" (Berlioz). Station Orchestra, Conductor: De Vocht; Cast: Germaine Teugels, MM. Toutenel, De Groote, Lits and Letroye.
 10.0—News; Reading, Prize-Winning Christmas Story.
 10.30—Request Records.
 10.55—Christus Vincit (Liszt).
 11.0-12.0 m't.—Records: Popular Music.

BRUSSELS (No. 2)

(Belgium)
 932 kc/s (321.9 m.); 15 kW. Programme in Flemish.
 6.30-9.5 a.m.—Records; News; Gym.
 9.5—Records. Overture, "Das Christelflein" (Pfitzner). Excerpts, "The Messiah" (Handel).
 10.0—Pontifical High Mass from Malines Cathedral. St. Rombaut Choir, Conductor: Van Nuffel; Flor Peeters (Organ). After the Mass, Old Netherlands Carol for Children's Voices (arr. Van Nuffel).
 11.30—Records. Suite in D (Bach). Toccata and Fugue in D (Bach-Stokowski).
 12.0 noon—Records: Light Music.
 12.30 p.m.—Weather.
 12.31—Records of Erna Sack (Soprano).
 12.40—Radio Orchestra, Conductor: Douliez. Overture, "Mozart" (Hahn). Scènes alsaciennes (Massenet).
 1.0—Shipping.
 1.10—Radio Orchestra (contd.). The Sanctuary of the Heart (Ketelbey). Suite, "L'Arlesienne" (Bizet).
 1.30—Records of Marcel Wittrich (Songs) and of Light Music.
 2.0—Lecture-Recital by René Lenaerts: French Impressionism in Chamber Music—Debussy.
 3.0—Flemish Songs sung by Jules Daems.
 3.15—Records: Old Carols.
 3.30—De Vries (Pfte.). Sonata in A (Scarlatti). Polonaise in A flat (Chopin).
 3.40—Maurice Raskin (Violin). Allegro (Fiocco). Poème (Buffin). Caprice (Paganini-Kreisler). Entrée, (Desplanes). Guitare (Moszkowski-Sarasate). Piece (Korn-gold).
 4.5—De Vries (Pfte.). Feux d'artifice (Debussy). Clair de lune (Veremans). Valse caprice (De Jong).
 4.15—Salon Orchestra, Conductor: Féron. Jacqueline de Kegel (Songs). Böhmische Musikanten (Eilenberg). Winterlandschaft (Lincke). Aubade japonaise (Lachaume). Songs: (a) Berceuse de Jocelyn (Godard), (b) Vers l'elfe (Berger). Au son des cloches (Popy). La petite église de village (Mellor-Trebor). Minuet (Scassola). Songs (Grieg, Berry). Russian Gipsies (Spialek).
 4.55—News.
 5.0—For Children. Songs round the Christmas Tree by Students of Herenthals College, Conductor: Abbé Claes.
 6.0—See Rome (No. 1).
 7.0—Request Records.
 7.30—Topical; News.
 8.0—Christmas Programme. Rosane Van Neste (Harpisichord); Carlo Van Neste (Bass-Viol); Alfons Van Neste (Viola da Gamba); Achiel Van Beveren (Songs); Blanka Gyselen (Recitations).
 8.45—Talk by the Rev. Father Van Gestel, O.P.: Christmas Greetings to our Listeners.
 9.0—"Pax"—Nativity Play (Jef Crick) with Music by Hendrik Van Schoor. I.N.R. Symphony Orchestra, Conductor: Dejoncker; I.N.R. Choir, Conductor: Gras; Singers and Speakers.
 10.0—Topical; News.
 10.10—Request Records.
 10.50—Prayer; Hallelujah Chorus, "The Messiah" (Handel).
 11.0—Records (Abraham, Bellini).
 11.15-12.0 m't.—Brenders Jazz Band.

BUCHAREST (Romania)

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

11.0—Time; News; Water Level.
 11.5—Romanian Music by the Sibiccano Orchestra.
 12.0 noon—Stroe and Vasilake Duo.
 12.20 p.m.—Romanian Music (contd.).
 4.0—Time; Light Music by the Tandin Orchestra.
 5.0—Film Song Records.
 5.15—Tandin Orchestra (contd.).
 6.0—Talk.
 6.15—Grozuta (Romanian Songs).
 6.40—Records: Light Music.
 7.15—Dance Music—Radio Orchestra. Conductor: Bobesco; at 8.30—Sports.
 9.35-10.0—Romanian Music by the Dumitresco Orchestra.

BUDAPEST (No. 1)

(Hungary)
 546 kc/s (549.5 m.); 120 kW.
 7.40 a.m.—News.
 8.0—Protestant Service.
 9.0—Mass.
 10.30—Protestant Service.
 11.40—Opera Orchestra. Conductor: Berg. Roman Carnival (Berlioz). Suite, The Seasons (Glazunov). Le chasseur maudit (Frank).
 12.10 p.m.—Report.
 1.0—Records.
 2.0—Fairy Tale with Records (Vandor).
 2.30—Heilig Jazz Band.
 3.0—Talk by Odón Szilagyí.
 4.0—Tibor Joo.
 4.30—Árpád Balázs with the Sándor Burá Cigány Band, Erzsé Sándor and Ferenc Székelyhidý.
 5.30—Talk: Christmas in the Jungle.
 6.0—See Rome (No. 1).
 7.5—"Christmas"—Fairy Play after Dickens.
 8.40—News.
 9.0—Budapest Concert Orchestra. Conductor: Fridl. Overture, "La dame blanche" (Boieldieu). Puppentänze (Budai). Waltz (Stephanides). Hungarian Caprice (Zádor). Suite (Logodi). Rhapsody, Vardar (Vladigrov).
 10.10—Mursi Cigány Band from the Hotel Gellért.
 11.5—News.



Monsignor Lorenzo Perosi, a programme of whose sacred music will be broadcast from the Vatican at 6 p.m., and relayed by almost every European country and the U.S.A.

BUDAPEST (No. 2)

(Hungary)
 359.5 kc/s (834.5 m.); 18 kW.
 10.30 a.m.—Records.
 4.30 p.m.—Dr. Károly Panke.
 5.30—Records.
 7.0—News.
 7.20—Station Orchestra.

COLOGNE (Germany)

658 kc/s (455.9 m.); 100 kW.
 5.0 a.m.—Talk; Records.
 6.55—Weather; Water Level.
 7.0—Service.
 7.30—Christmas Letters.
 7.45—Christmas Songs by the Eschweil Choir. Conductor: Kistemann.
 8.30—Christmas Music. Chamber Orchestra, Sopranos, Organ.
 9.50—A Christmas Tale (Goethe).
 10.10—"The Christmas Organ" (Rendenbach), with Kalla (Organ).
 11.0—Gay Marches and Melodies—Cologne Mandoline Ensemble, Sextet, Six Merry Singers, Military Band; at 12.0 noon—the Station Director's Greetings.
 1.0 p.m.—Records.
 2.0—"The Sleeping Beauty"—Fairy Play (Wollmann).

2.45—"The Christmas Rose"—Word Picture (Schnack).
 3.0—Light Music (arr. Heinz Hoppe). Hagedstedt Orchestra, Schrammel Ensemble, Solo Voices and Instruments.
 5.0—"The Black Christmas Tree"—A Tale (Hauser).
 5.20—The Plattenberg Christmas Choir.
 5.40—"Sven Hedin's Research Work"—Sequence (Gerhardt).
 6.0—See Leipzig.
 9.15—News.
 9.30-12.0 m't.—See Berlin.

DEUTSCHLANDSENDER (Germany)

191 kc/s (1,571 m.); 60 kW.
 5.0-7.0 a.m.—See Hamburg.
 7.0—Christmas Morning Concert. Hinze Band, Baritone and Solo Instruments.
 9.0—A Christmas Morning Service.
 9.45—Schimmelpfennig (Cinema Organ), from the Ufa-Palast, Hamburg; Weather.
 10.30—Haydn and Mozart Trios. Trio in G (Haydn). Trio in B flat (Mozart).
 11.0—v. Gezzy Band, etc.
 12.0 noon—Greetings.
 12.15 p.m.—v. Gezzy Band, etc.
 1.0—"Nussknacker, Grossmaul und das Zimmer-Suschen"—A Christmas Play (Ilse Obrig); Records.
 2.15—A Christmas Programme for Germans outside the Reich—Station Orchestra and Chamber Choir, etc., Conductor: Dombrowski (Recorded).
 3.0—Wilfried Krüger Band.
 5.0—"Unser Herr Vater" (Dear Papa)—A Humorous Family Album (Krause) after the Book by Clarence Day.
 6.0—Children's Corner (Debussy) by Willi Stech (Pfte.), with Text by Peter Althaus, spoken by Käte Gold.
 6.30—Dobrnit Band (Records).
 6.50—Sports.
 7.0—Favourite Melodies—Station Orchestra. Conductor: Kirsten. Overture, "Rosamunde" (Schubert). Minuet (Haydn). Norwegian Dances (Grieg). Suite, "L'Arlesienne" (Bizet). Overture, "Der Opernball" (Heuberger). Overture, "Die Königskinder" (Humperdinck). Czardas, "Ritter Pasman" (Strauss). Overture, "Donna Diana" (Reznicek). Ballet Suite, "The Sleeping Beauty" (Tchaikovsky). Selection, "Paganini" (Lehár); at 7.45-8.5—Reading.
 9.0—News; Sports; Topical.
 9.30-9.45—Pfte.: Theme with Variations (v. Herzogenberg).
 10.0-11.55—Music from Berlin.

FRANKFURT (Germany)

1,195 kc/s (251 m.); 25 kW.
 Cassel, etc. See Sunday.
 5.0-7.0 a.m.—See Hamburg.
 7.0—Water Level; Weather; Gym.
 7.30—Schumann Chamber Music.
 8.0 (from Freiburg)—Service.
 8.45—A Morning Ramble.
 9.0—"Christmas" (Records).
 9.30 (from Cassel)—"Liederfreund" Choir. Conductor: Georg Schmidt.
 10.15—Cosima Wagner Anniversary Sequence (Fraenger).
 11.0—Orchestra and Mandoline Band. Conductor: Cuije.
 1.0 p.m.—For Children.
 1.30—"For Cassel"—Christmas at Home and Abroad—Speakers and the Cassel String Quartet.
 2.15—"Winter in the Forest"—Sound Pictures of the Rhön Country.
 3.0—See Königsberg.
 5.0—Band from Freiburg.
 6.0—Light Orchestral.
 6.45—Sports.
 7.0—Christmas Music. Station Orchestra. Susanne Horn-Stoll (Soprano). Part I. Old Music. Conductor: Frickhoeffer. Overture, "The Messiah" (Handel). Pastoral and Soprano Aria, Christmas Oratorio (Bach). Christmas Concerto (Corelli). Part II. English Music. Conductor: Leigh Henry. Fanfare for a Festival (Henry). Winter Landscape (Delius). Christmas Overture (Scott). Christmas Carol (Bax). Christmas Symphony, Adeste fideles (Margaret Glyn). Winter Poem (McEwen). Christmas Dance (Henry). Part III. New Music. Conductor: Frickhoeffer. Christmas Suite (Schilderup). Maria Wiegand (Reger). Christmas Scene, "The Miracle" (Humperdinck). Overture, Christelflein (Pfitzner).
 9.0—News; Sports.
 9.25-12.0 m't.—Light and Dance Music. Station Orchestra and Song Records.

HAMBURG (Germany)

904 kc/s (331.9 m.); 100 kW. Bremen, etc. See Sunday.
 5.0 a.m.—Harbour Concert.
 7.0—News; Harbour Notes; Gym.
 7.25—Concert from the Stadthalle, Magdeburg. Orchestra, Conductor: Theil; Magdeburg Women Teachers' Choir; Singers.
 9.0—Records.
 9.30—"Joys of Givip"—Christmas Sequence.
 10.0—Gregor (Organ); Micksche (Violin).
 10.40—Talk.
 11.0 (from Magdeburg)—Christmas Concert from the Stadthalle. Orchestra, Conductor: Theil; Koscielniy "Cello".
 1.0 p.m.—"König Drosselbart"—Christmas Play for Children (Gättke).
 2.0—Records: Famous Artists.
 3.0—See Königsberg.
 5.0—Talk with Illustrations: From Musical Box to Sound Film.
 5.30—Classical Records.
 6.10—"How they celebrated Christmas"—Sequence about People and Periods from Pictures, Narratives and Reports (Maass).
 7.0 (from Hanover)—Orchestra, Conductor: von Sosen. Hellafest und Kinderreigen (Humperdinck). Ein Fest in Aranjuez (Demersermann). Polonaise and Waltz, "Eugene Onegin" (Tchaikovsky). Dance, "The Snow Maiden" (Rimsky-Korsakov). Two Hungarian Dances (Brahms). Violin: Excerpt, "Sylvia" (Delibes). Selection, "Der Evangelimann" (Kienzl). Overture, "Der Opernball" (Heuberger). Waltz, Winterlandschaft (Lincke). Nordische Hochzeit (Brase). Nutcracker Quadrille (Kücken). Von Wien durch die Welt (Hruby). Humoresque, Polka (Reesen). Hannoverische Post (Lange). Max und Moritz (Zimmer). Festjubiläum - Marsch (Blankenburg).
 9.0—News.
 9.15-12.0 m't.—Dance Music. Station Dance Band, the Vienna Street Singers, Fritz Kroeger (Xylophone) and the Herbert Küster Pfte. Duo.

HILVERSUM (No. 1)

(Holland)
 160 kc/s (1,875 m.); 10 kW until 2.40 p.m.; 150 kW from 2.40 p.m. Also on Lopikerkapel, 722 kc/s (415.4 m.); 17 kW from 2.40 p.m.
 7.10-9.10 a.m.—NCRV Programme.
 7.10—Christmas Service.
 8.10—Religious Transmission.
 9.10 a.m.-4.40 p.m.—KRO Programme.
 9.10—Records: Sacred Music.
 9.40—High Mass.
 10.40—Records.
 11.55—KRO Orchestra. Conductor: van 't Woud; at 12.40—Records.
 1.40—José Candel (Soprano).
 2.10—Records.
 2.40—Rotterdam Philharmonic Orchestra and Choir. Conductor: Filipe.
 4.10—Records: Dutch Carols.
 4.40-7.25—NCRV Programme.
 4.40—Service; Sacred Music.
 6.25—Mlle Hagenbeek (Soprano), Kloek (Organ).
 7.25 till Close—KRO Programme.
 7.25—Records; Talk; News.
 8.5—Concert from the Vatican (Recorded) (for details see 6.0 p.m. Rome (No. 1)).
 9.5—Radio Fantasy (de Hoog-Nooy). Music by d'Abblang.
 9.40—KRO String Orchestra. Conductor: van 't Woud.
 10.10—News.
 10.20—KRO Orchestra. Conductors: van 't Woud.
 10.55-11.40—Records.

HILVERSUM (No. 2)

(Holland)
 995 kc/s (301.5 m.); 15 kW until 6.10 p.m.; 60 kW from 6.10 p.m.
 VARA Programme.
 8.40 a.m.—Jong (Organ).
 9.10—Records.
 9.40-11.40—VPRO Programme.
 9.40—Stoijn (Oboe), Karsemeyer (Organ).
 10.10—News.
 11.40—Records.
 12.10 p.m.—Members of the VARA Orchestra, Pro Musica Choir and Solo Voices; at 12.30—Recitation.
 12.50—Records.
 1.10—Competition.
 1.40—Amateurs' Programme.
 2.10—Residentie Orchestra. Conductor: v. Beinum. Brailowsky (Pfte.).
 3.55—Esperanto Lesson.
 4.15—Play with Music.

SATURDAY (December 25)

5.10—Report.
5.40—Steyn (Organ).
6.10—VARA Children's Choir and Records.
6.40—Address.
7.0—Records.
7.10—VPRO Address.
7.40—Announcements.
7.55—Glyn Eastman (Songs).
8.15—Sketch.
8.25—Orchestra. Conductor: de Groot.
8.50—Address.
8.55—Variety.
10.10—Press Review.
10.20—Orchestra. Conductor: de Groot.
10.55—Recitations.
11.10-11.40—Mlle Len Connel (Songs) and Jong (Organ).

KALUNDBORG (Denmark)

240 kc/s (1,250 m.); 60 kW.
Relays Copenhagen, 1,176 kc/s (255.1 m.).
7.45 a.m.—Roman Catholic Music. Church Choir. Conductor: Husson. Svend Madsen (Organ).
8.30—Christmas Hymns by a Brass Band.
9.0—Service from Copenhagen Cathedral.
10.28—Weather; News.
11.0—Preil's Ensemble.
12.45 p.m.—Readings.
1.0—Service from Christiansborg Castle Church.
2.20—Rydahl's Ensemble. Rosa Prahl (Songs). Overture, "Preciosa" (Weber). Selection, "Lilac Time" (Schubert-Berte). Waltz, "Faust" (Gounod). Andante in C (Mozart). Tambourine (Gossec). Minuet, "Berenice" (Handel). Spanish Dances (Moszkowski). Carols (Cornelius). Nordisk Sæterrejse (Gade). Waltz, Hesperus (Lumbye). Andante religioso (Rydahl). The Bridal Procession passes by (Grieg). Valse triste (Sibelius). Canzonetta (Fin. Henriques). Resignation (Schroder). Overture, "A Waltz Dream" (O. Straus).
4.20—Concert Version, "The May Queen" (Gluck).
4.50—Records.
5.0—Chimes; Jens Laumann (Organ) from Frederiksborg Castle Church. Introductory Talk. Mein glaubiges Herze (Bach). Prelude to "Vater unser im Himmelreich" (Bach). Lass mich dein sein und bleiben (Strungk). Sarabande (Lully). Andantino (Martini). Sarabande (Handel). Fantasia on Danish Christmas Music.
5.40—Records: Scherzo capriccioso (Dvorak).
5.50—Weather.
6.0—Time; News.
6.30—"Hans Andersen"—Literary Sequence, with Preil's Ensemble.
8.0—Kuhlauf Pfte. Duets by Folmer Jensen and Ove Peters. Sonatina in G. Sonatina in C.
8.20—"Tornerose"—Cantata (Heise) by Edith Oldrup Pedersen, Einar Norby and the Radio Choir and Orchestra. Conductor: Lundqvist.
9.10—Reading (Gunnar Gunnarsson).
9.30-10.0—Scandinavian Music. Radio Orchestra. Conductor: Lundqvist. Overture, "Little Christie" (Hartmann). Swedish Folk Songs (arr. Svendsen): (a) Allt under himmelens faste, (b) Du gamla, du fria. Norwegian Dance in A (Grieg). Finlandia (Sibelius).

KÖNIGSBERG (Heilsberg) (Germany)

1,031 kc/s (291 m.); 100 kW.
Relayed by Danzig, 1,303 kc/s (230.2 m.).
5.0 a.m.—See Hamburg.
7.0—Records.
8.10—Protestant Service.
9.0—Talk: Fir Trees; Records.
9.45—News; Road Report.
10.0—Round the Christmas Tree.
11.0—Börschel Band; at 12 noon—News and Road Report.
1.0 p.m.—Reading.
1.20—Tücki and Peter at the Cinema.
2.20—"The Drummer"—Fairy Play after Grimm (Hein), with Music by Ahl.
3.0—"The Gift Parade"—Pictures of Königsberg. Börschel Band, Military Band and Solo Voices.
5.0—Talk by Wolfgang Koeppen.
5.15—Werner Hartung (Organ).
5.40—"The Winter Solstice" (Becker).
6.0—Records: Light Music.
7.0—"Hänsel and Gretel" (Humperdinck). Station Orchestra and Singers, Conductor: Brückner.
9.0—News; Road Report.
9.15-11.0—See Munich.

LEIPZIG (Germany)

785 kc/s (382.2 m.); 120 kW.
Relayed by Dresden, 1,285 kc/s (233.5 m.).
5.0 a.m.—See Hamburg.
7.0—Zöllner (Organ).
7.30—Service.
8.0—"To Mothers" (Baumann)—with Music by Heyden.
8.30—Leipzig Symphony Orchestra, Conductor: Hermann Weber; Gerhard Burgert (Pfte.); Günther (Flute).
10.30—"Lasst uns ein Licht anzünden!"—Christmas Cantata (Ambrosius). Leipzig Quartet, Choir and Singers.
11.0—See Breslau.
1.0 p.m.—Records: Light Music.
1.50—"Nussknacker Grossmaul und das Zimpersuchen"—Play for Children (Ise Oberg).
2.20—The Trout Quintet (Schubert).
3.0—Variety Concert. Station Orchestra, Conductor: Kretschmar; Fricke Band and Singers.
4.50—"A Christmas Journey into the Past"—Radio Fantasy in Six Parts to Music of Weber, Beethoven, Mozart, etc. (Prügel). Part I. "The Clock goes backwards!" Part II. "The First Puffing-Billy." Part III. "Goethe's Amours in Weimar." Part IV. "Mozart's Grave." Part V. "Frederick the Great receives a Warning." Part VI. "Mortality—Immortality."
5.55—Sports.
6.0—"Tannhäuser" (Wagner). Leipzig Symphony Orchestra and Choir, Conductor: Weisbach. Cast: von Manowarda, Tiana Lemnitz, etc.
9.15—News; Sports.
9.45-11.0—Light and Dance Music from Berlin.

LILLE (Radio PTT Nord) (France)

1,213 kc/s (247.3 m.); 60 kW.
Transmits at intervals from 7.0 a.m.
9.30 a.m.—Records: Christmas Music.
11.10—Records: Light Music.
11.25—Records: "Les noces de Jeannette" (Masse).
12.15 p.m.—Jazz by Dehette and Duchêne.
1.15—News; Weather.
1.30-6.45—Programme from Paris (PTT).
6.45—Records.
7.0—Talk in English.
7.15—Sports; News; Topical.
8.0—Variety.
8.30 (Also Toulouse (PTT) and Limoges (PTT))—"Christmas Ghosts"—Play after Dickens' "Christmas Carol" (Jollivet-Dullin) by Artists of the Théâtre de l'Atelier. After the Play: News.

MONTE CENERI (Switzerland)

1,167 kc/s (257.1 m.); 15 kW.
9.30 a.m.—Pontificale natalizio (Mastelli) from Lugano Cathedral. St. Cecilia Choir and Radio Orchestra. Conductor: The Composer.
11.0 (approx.)—Records.
11.29—Time; News.
11.40 a.m.—12.30 p.m.—Records: Light Music.
3.59—Time.
4.0—"Christmas in the Ticino"—Radio Orchestra. Conductor: Herschel. Bellinzona Melodia Choir. Conductor: Vicari. Ticino Child Singers, and a Young Reciter. Chimes. Record: Ninnaninna (Bossi). Choir: (a) Una fila di nuvole d'argento (Caracciolo), (b) La preghiera (Gerosa), (c) Fede, Speranza, Amore (Vicari), (d) Spirito di Dio (Lotti), (e) Notte di Natale (Bossi). Pastorale natalizio (Jacchino). Christmas Pastorale (Müller). Song, Il Cristo è nato (Filippello). Recitation. Song (Schubert). Recitation. Carol (Oddone). Recitation. Children's Trio: Nel silenzio della notte (Malfetti).
5.0—L'Anticamera del Paradiso—A Christmas Fantasy for Children (Erminia Bolzani-Brentani).
5.30—Records: Christmas Bells.
5.45—News.
6.0-7.0—See Rome (No. 1).

MOSCOW (No. 1) (Russia)

172 kc/s (1,744 m.); 500 kW.
12.0 noon—Dutch Programme.
5.0 p.m.—Concert.
6.0—Provincial Programme.
7.0—Dramatic Programme.
8.15—Concert.
9.0—French Programme.
10.0-12.0 m't.—Spanish Programme.

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.
7.0—Service.
7.30—Old Music by the Munich Trümmsik. Conductor: Rein.
8.0—Records: German Music.
9.0—"Christmas, a Festival of Love"—Talk by Friedrich Würzbach, with Stuhlfauth (Violin).
9.30—Music of Upper Bavaria and the Tyrol. Schrammel Orchestra, Wind Band, Folk-Song Duo and Tyroler Harp.
10.30—Records.
11.0 a.m.—1.0 p.m.—See Breslau.
1.0—Song Records.
1.45—For Children.
2.30—Cosima Wagner Anniversary Programme (Recorded). Male Voice Choir and Military Band. Conductor: Kittel. Bayreuth Light Orchestra. Conductor: Maas. Elisabeth Keller-Seefried and Hans Possenbacher (Speakers). Ein Albumblatt (Wagner). "Cosima Wagner"—A Biographical Sketch (Conrad). Psalm 18 (Liszt).
3.0—See Königsberg.
5.0—German Chamber Music (Recorded).
6.0—Sports.
6.15—"From Christmas to the Epiphany"—Musical Sequence (Reimesch) (Recorded).
7.15—"The Old Song"—Sequence about Old Tunes (Humbach, arr. Dietmar). Orchestra and Station Choir. Conductor: Michalski. Singers, Violin and Speakers.
9.0—Time; News.
9.15—Dancing round the Christmas Tree—Station Dance Band and Schrammel Ensemble, Songs, Pfte.
11.0-11.30 (from Nürnberg)—Bach Recital from Würzburg. Irma Lieske (Soprano), Hertha Bulle (Violin), Gugel (Oboe) and Schindler (Organ). Organ: Pastorale. Symphony for Oboe and Organ. Aria for Soprano, Oboe and Continuo: Ich halt es mit dem lieben Gott. Allegro from the Concerto for Violin and Oboe with Continuo.

NAPLES GROUP (Italy)

Naples, 1,104 kc/s (271.7 m.); 10 kW. Florence (No. 1), etc. See Sunday.
6.0 p.m.—See Rome (No. 1).
7.0—News; Talk.
7.30—Mountain Songs.
8.0—Nativity Play.
8.20—Marika Campia (Organ). Pastorale (Bossi). Carol (Bossi). Pastorale (Vierne). Prelude and Pastorale (Mendelssohn).
9.0—Dance Music.
10.0—News.
10.15-10.55—Dance Music.

OSLO (Norway)

260 kc/s (1,153.8 m.); 60 kW.
Fredrikstad, etc. See Sunday.
Transmits at intervals from 7.55 a.m.
3.0 p.m.—Bergen Radio Orchestra. Conductor: Johannessen. Symphony in B minor (Schubert). Bach and Handel Potpourri (Zimmerer). Four Norwegian Folk Songs (Olsen). Selection, "Lohengrin" (Wagner).
4.5—Variety.
5.20-5.45—Talk: Birger Moss Johnsen.
5.56—News; Announcements.
6.15—Christmas Programme for the Lonely.
7.45—Station Orchestra. Conductor: Kramm. Waldemar Alme (Pfte.). Intrata (Halvorsen). Two Icelandic Songs (Svendsen). Variations on a Norwegian Theme (Schütttauf). Petite suite (Olsen). Norwegian Song Potpourri (Haaland).
8.40—News; Topical.
9.15-9.45—Narvik Boys' Choir.

PARIS (Eiffel Tower) (France)

1,456 kc/s (206 m.); 7 kW.
Transmits at intervals from 7.0 a.m.
3.15 p.m.—Bouillon Dance Band.
4.45—Concert.
6.30—Economics; Talk.
7.0—"Avarice"—Sketches: (a) Scene, "La Marmite" (Aylularia) (Plautus); (b) Scene, "L'Avare" (Molière); (c) Scene, "Les héritiers Raxbourdin" (Emile Zola); (d) Scene, "Le Testament du Père Lelcu" (Roger Martin du Gard).
7.30—News; Time Signal.
8.0—Jane Montange (Songs); Jeanne-Marie Darré (Pfte.). Songs: (a) Jerusalem (Gounod), (b) Chanson (de la Presle). Pfte.: (a) Choral (Bach-Philipp), (b) Four Carols (Tournier). Songs: (a) Ave Maria (Gounod), (b) Silence (Syniane). Pfte. Pieces

(Gallon): (a) La divine crèche, (b) Les Rois Mages, (c) Cloches d'allegresse.
8.30-10.30—Soirée Tournante.
8.30—Conte de Noël (Maurice Boucher) with MM. Arquillière, Dorléac and Mmes Renée Bourgeon and Suzanne Rouyer.
9.10—France in Song (arr. Aman-Maistre). Bouillon Orchestra, with Mmes Esther Lekain, Marcelle Yrven, Odette Barancey, Adrienne Gallon, Germaine Bredy, Renée Garcia and Marnelle, and MM. Camus, Gesky, Josselin, Natol, Montbard, Hiéronimus, Valauris and Decroux.
9.50—Orchestra, Conductor: Tomasi. Overture, "Fra Diavolo" (Auber). Ballet, "Ascanio" (Saint-Saëns). London every day (Coates).
10.30—Records.
11.0-11.15—News.

PARIS (Poste Parisien) (France)

959 kc/s (312.8 m.); 60 kW.
Transmits at intervals from 7.50 a.m.
9.15 a.m.—High Mass from the Benedictine Abbey of Saint-Louis du Temple. Commentary by the Rev. Father Roguet, O.P.
10.25—Records.
11.30—Talk; Topical Review.
12.0 noon—Carols—Records.
12.10 p.m.—Variety.
12.25—News; Cinema Organ.
12.30—Records.
1.17—Talk; Records.
1.50—Antoinette Soulas.
1.55—News.
2.0—Cigany Band Records.
2.20—Tahitian Song Records.
2.35—Talk by Mme Dix.
2.40—Dance Music.
3.0—Variety.
6.0—See Rome (No. 1).
6.58—Racing.
7.0—Foreign Press Review.
7.10—Sports; Amusements.
7.17—Records: Fred Adison Orchestra.
7.45—Records of Réda Caire and Germaine Féraldy.
8.0—Topical.
8.10—Georges de la Fouchardière and Clément Vautel.
8.15—Max Regnier and Company.
8.45—"La bonne histoire."
9.0—News.
9.10—"The Vines of France"—Sequence.
9.25—Willie Lewis Orchestra.
9.55—News.
10.5—Dance Music.
10.30-11.0—Ray Ventura.

PARIS (PTT) (France)

695 kc/s (431.7 m.); 120 kW.
Transmits at intervals from 6.30 a.m.
9.0 a.m.—"Christmas 1937"—Fantasy (René-Paul Groffe). Orchestra, etc. Conductor: André.
10.0—Pascal Orchestra.
11.15—Cio and Lette (Duetists).
11.30—Pascal Orchestra. The Christmas Tree (Rebikov). Parade of the Tin Soldiers (Jessel). The Snowdrop (Tchajkovsky). Der Zirkus kommt (Rust). Cloche dans la nuit (Alger). Marche nuptiale d'une poupée (Lecocq). Ma poupée chérie (de Séverac). Polka de Polichinelle (Corbin).
12.0 noon—Adison Orchestra.
12.45 p.m.—News.
1.0—Adison Orchestra.
2.0—"The Legend of the Christmas Tree" (Chantrel) with Music by Clergue.
2.15—Records.
2.30—"Merlusse"—Play adapted from Pagnol's Film (Roger Goupillières) with Henri Poupon. Introductory Talk by Lemercier.
4.0—Chalut-Natal Musette Trio.
4.45—Lamoureux Concert. Wagner Programme. Overture, "Rienzi." Elsa's Aria, "Lohengrin." Elisabeth's Aria, "Tannhäuser." Forest Murmurs. Prelude, "Parsifal." Excerpt, "The Rhinegold." Selection, "The Mastersingers."
6.40—Variety by La Régia and Max Rogé.
7.0—News; Review.
8.0—Variety by Georges Chepfer, Denise Cam and Jean Rieux.
8.30-10.30—Soirée Tournante.
8.30—Orchestra, Conductor: Tomasi. Overture, "Mirella" (Gounod). Petite Suite (Debussy). Waltz Toujours ou jamais (Waldteufel). Ballet, "Manon" (Massenet).
9.10—Medieval Nativity Plays, with Old Carols, adapted for the Radio by Camille Schneider, with Samson Fainsilber, Romuald Joubé and Madeleine Larsay,

etc. (a) "Le Jeu d'Adam et d'Eve"; (b) "Les prophéties"; (c) "L'Annonciation"; (d) "L'annonce faite aux bergers."
9.50—"France in Song" (arr. Aman-Maistre). Bouillon Orchestra with Esther Lekain, Marcelle Yrven, Odette Barancey, Adrienne Gallon, Germaine Bredy, Renée Garcia, Mme Marnelle, and MM. Camus, Gesky, Josselin, Natol, Montbard, Hiéronimus, Valauris and Decroux.
10.30—News.
10.45—Avignon Dance Band.
12.30-2.15 a.m. (Sunday)—Dance Music. Goldy Orchestra and Sorbier (Tenor).

PARIS (Radio-Paris) (France)

182 kc/s (1,648 m.); 80 kW.
6.58 a.m.—Programme; Records.
7.15—Time; News; Gym; Records.
8.0—Records: Carols.
8.30—Records.
9.15—Talk.
9.30—Records.
10.0—Jane Evrad Orchestra. Simone Rapin (Songs); Paule d'Ambrosio and Eliane Magnan (Cellos); Françoise Kempf (Harp). Pièce liturgique (Couperin-Bernard). Sonata (Handel). Carols. Musical Pictures (Reinecke). Pfte. and Strings: La racine (Bodin-Boismortie). Strings and Harp: Tristesse (Vasseur). Romance for Violin, Strings and Harp (Fauré). Fandango for Strings, Pfte. and Harp (Halfter).
11.30—Pierre Revel (Organ). Five Chorals (Bach). Sonata (Mendelssohn).
12.0 noon—Roman Catholic Address by the Rev. Father Bith.
12.20 p.m.—Cantrelle Orchestra. In a Toy Shop (Ketelbel). Petite Suite (Pierné). Marionettes (Filippucci). Sûlité, Jeux d'enfants (Bizet). Sérénade du lapin beliquex (Léonard). Waltz, The Skaters (Waldteufel).
1.0—Time; News.
1.15—Cantrelle Orchestra. La procession nocturne (Rabaud).
1.30—Lucien Verroust (Songs).
1.45—Cantrelle Orchestra. Excerpt, "La Croisade des Enfants" (Pierné). Prayer (Franck). Marche de Noël (Widor).
2.0—"Le Noël des petits enfants pauvres"—Two-Act Play for Children (de Téramond).
3.0—Francy Orchestra.
3.30—André Claveau (Songs).
3.45—Nathalie Kachouk and Basile Braminov (Duets). Les ailes de l'amour (Lacôme). Der Abendstern (Schumann). Wiegenlied (Brahms). Les rêves (Grechani-nov). Le petit ours en peluche (Stimer). Vanka, Tanka (Dargomijsky).
4.0—"L'étrange Nuit de Noël de Mr. Scrooge"—Play after Dickens's "A Christmas Carol" (Jean Bergeaud and Maurice Jacquemont).
5.0—Marley Orchestra. Arrue (Violin). Cadet March (Soufa). Waltz, Très jolie (Waldteufel). Selection "Monsieur Beaucaire" (Messager). Slow Foxtro, When did you leave Heaven (Whiting). Foxtro, September in the Rain (Warren). Tango, Ta voix (Giland). Violin Solo. Ariette (Pierné). Il natale di Pierrot (Monti). Foxtro, Shall we dance (Gershwin). Oh ma rumba (Silviano). Chevalier Song Potpourri (Salabert). Lettre à Petit Noël (Waltham). Foxtro, Boo Hoo (Heymann).
6.30—"La Crèche merveilleuse"—Oratorio (Charles Hellem and Pol d'Estoc). Music by Lucien-Marie Aube.
7.15—Christmas Carols in the Old Style (Pierre Danjou and Gustave Brantz) sung by Suzanne Feyrou.
7.30—Fred Adison Band.
8.0—Home Affairs.
8.8—Foreign Affairs.
8.15—René Azam (Songs). Three Eighteenth-Century Christmas Carols. Noël en mer (Ackermann). Le paradis de bébé (Goublier). Noël aux quatre vents (Goublier).
8.30—Programme from the Opéra-Comique; at 9.30—News and Review.
11.45 p.m.—1.0 a.m. (Sunday)—Bouillon Dance Band.
PRAGUE (Czechoslovakia)
638 kc/s (470.2 m.); 120 kW.
Transmits at intervals from 5.45 a.m.
7.35 a.m.—Records.
7.45—Meditation.
8.0—See Brno.
9.0—Classical Music from Moravska-Ostrava.

SATURDAY (December 25)

9.30—Music and Poetry.
10.0—Christmas Oratorio (Bach). Station Orchestra and Choir. Conductor: Jeremias. Wieder- mann (Organ); Z. Spaková (Soprano), S. Stepanová (Mezzo-Soprano), Chorovic and Masák (Tenors), Otava (Baritone).
11.0—Chimes.
11.5—Record.
11.10—Press Review; Weather.
11.20—Variety Concert from Kosice.
12.50 p.m.—For Farmers.
1.5—For Farmers (German).
1.20-1.30—For Workers (German).
2.30—See Bratislava.
3.50—See Bmo.
4.15—Records: "Christmas" (Weinberger) by the Station Orchestra.
4.35—German Transmission: "Christmas in the Mountains."
5.45—News in German.
5.50—Topical Talks (German).
5.55—News.
6.0—See Rome (No. 1).
6.25—Talk on the following Opera.
6.30—"The Bartered Bride" (Smetana) from the State Opera House. In the interval, Talk: Christmas in Siberia.
9.0—Time; News.
9.20—Record.
9.25—News in German.
9.30-10.30—Dance Music by the Dvorsky Melody Boys from the Lucerna Café.

RADIO-NORMANDIE (France)

1,113 kc/s (269.5 m.); 15 kW.
6.45 a.m.—Military Band.
7.0—Records.
7.15—News; Press Review.
7.45—Joe Murgatroyd and Popett.
8.0—Light Music; Records.
8.30—Light Music and Records.
9.15—Musical Potpourri.
9.30—Light Music.
10.0—Pontifical High Mass from Rouen Cathedral.
12.0 noon—Violin Solos.
12.25 p.m.—Religious Address by the Rev. Fr. De Léon.
12.45—News.
1.0—Concert.
1.40—Orchestra. Soirée d'été (Waldteufel). Excerpt, "The Last Waltz" (Strauss). Pluie de diamants (Waldteufel). Excerpts, "Der Zigeunerprimas" (Kálmán).
2.0—Records.
2.45—Light Music.
3.0—Film Fantasy.
3.15—Records.
3.30—Light Music; Records.
4.15—Popular Music; Records.
4.45—Light Music.
5.0—Records.
5.45—Variety.
6.0—Children's Corner.
6.45—Talk; News; Racing.
7.0—Chansonnettes.
7.25—News.
7.45—Orchestral Records.
8.0—Records of Lys Gauty.
8.20—Music.
8.40—Records of Maurice Chevalier.
9.0—Christmas Carols. Noël païen (Silvestre). Noël en mer (Ackermans). Saboly Carol. Noël (Duthyl). Noël d'amour (Desmoulins). Noël beaupois (Warms). Noël bearnoïis (Frange- rolle). Noël Provençal (Tiersot). Noël (Gérard, Lemaire, Adam, Duthyl, Roquemare). Un soir de Noël (Gavel). Noël alsacien (Tiersot). Noël (Holmes, Pierné).
11.0—Café Concert (Recorded).
11.45—News; Weather.
12.0 m't.—Midnight Melodies.
12.30 a.m. (Sunday)—Records.
12.45—Light Music.
1.0-2.0—Dance Music.

RENNES-BRETAGNE (France)

1,040 kc/s (288.5 m.); 120 kW. Transmits at intervals from 7.0 a.m.
9.45 a.m.—Christmas Mass from the Cathedral, Angers.
11.30—Station Orchestra, Conductor: Henderick; Paulette Colcanap (Mezzo-Soprano). Overture, "The Messiah" (Handel). Aria from the Suite in D (Bach). Pastoral (Franck). Songs (Debussy, Ropartz, Faure). Selection, "L'Enfance du Christ" (Berlioz). Overture, "Si j'étais roi" (Adam). Songs (Honegger, Abadie, Chaminate). Tarantelle (Pierné).
12.45-6.40 p.m.—See Paris (PTT).
6.40—Record.
6.45—News in English.
7.0—News; Weather; Sports.
8.0—See Paris (PTT).
8.30—"La Poupée" (Audran) from the Municipal Theatre. After the Programme: News.

REYKJAVIK (Iceland)

208 kc/s (1,442 m.); 16 kW.
10.45 a.m.—"Messiah" (Handel).
11.40—Weather (Icelandic, English, German).
12.0 noon—Service from the Cathedral.
9.0 p.m.—Time; Missa Solennis (Beethoven).

ROME GROUP (Italy)

Rome (No. 1), 713 kc/s (420.8 m.); 50 kW. Bari (No. 1), etc. See Sunday.
7.30-7.50 a.m.—News.
9.0—High Mass; Bible Reading.
11.30—Sports; Light Music.
12.0 noon—News.
12.15 p.m.—Nativity Play.
1.0-1.15—News.
3.40—For Children.
4.0—News.
4.15—Light Music.
4.45—Talk for Workers.
5.10—Rural Programme.
6.0—Sacred Concert from the Vatican. Compositions of Monsignor Lorenzo Perosi, by the E.I.A.R. Symphony Orchestra and the Pontifical Choir of the Sistine Chapel. Conductor: The Composer. Soloist: Beniamino Gigli (Tenor). Vocal Quartet, Choir, and Orchestra: "Jucundare filia Sion," Prelude to Part II of the Oratorio, "Il Natale del Redentore." Tenor, Choir and Orchestra: "Ave Maria," from the Oratorio, "Il Natale del Redentore." Choir and Orchestra: Pastoral. Tenor, Choir and Orchestra: Natalità. Tenor, Choir, Vocal Quartet and Orchestra: (a) Le beatudini, (b) Benedizione degli eletti, (c) Inno alla Pace from "Il Giudizio Universale." Tenor Solos, Solo Voice, Choir and Orchestra. Inno alla Giustizia, from "Il Giudizio Universale."
7.0—News; Talk.
7.30—Radio Orchestra.
8.0—"The Tropical Adventure" (Nascimbene).
10.0—News.
10.15-11.30—Dance Music.

SOTTENS (Switzerland)

677 kc/s (443.1 m.); 100 kW. Relayed by Geneva, 401 kc/s (748 m.). Transmits at intervals from 11.29 a.m.
4.0-5.0 p.m.—See Monte Ceneri.
5.0—Lausanne Cathedral Chimes.
5.10—For Children.
5.40—Variety Records.
6.0—See Rome (No. 1).
7.0—News.
7.10—Chamber Music. Flore Gabella (Soprano); Paul Burger (Cello); Moser (Organ). Organ: Psalm No. 18 (Marcello). Song: Maria Wiegenlied (Reger). Song with Pfte. and Cello: Le sommeil de l'Enfant (Busser). Organ: Prelude (Pierné). Cello and Pfte.: Suite in D (de Her-velois). Old Carols. Sonata for Cello and Pfte. (Lœillet).
8.0—The Unfinished Symphony (Schubert) by the Radio Suisse romande Orchestra. Conductor: Haug.
8.20—Les Chanteuses de la Colom- bière. Conductor: Bolter. Part I. Carols. Le Messie vient de naître. Noël du voisin. Noël des anges. Touro louro louro. Entre le bouef et l'âne gris. Catalan Carol. Ukrainian Carol. Part II. Folk Songs. Voici Léna. Mon père n'avait fille que moi. Que le diable vous emporte. L'amour de moy. Spanish Folk Song. Ticino Folk Song. Vidalita. A Molésan. Part III. Rondos. Le vent. Une fille à marier. La bou- queetière. Les pioupiou. Part IV. La légende du paresseux—Musical Sketch for Children (Bolter).
9.20-10.0—Radio Suisse romande Orchestra. Conductor: Haug. Concerto grosso in G minor (Geminiani). Serenade in C (Haydn). Symphony in B minor (Gassmann).

STOCKHOLM (Sweden)

704 kc/s (426.1 m.); 55 kW. Motala, etc. See Sunday.
6.0 a.m.—Christmas Service.
9.0—Records: Part I, "The Messiah" (Handel).
10.0—Service from Karlstad Cathedral.
12.0 noon—Radio Orchestra. Conductor: Lars-Erik Larsson. Choral Prelude (Bach-Kall- stenius). Christmas Concerto (Corelli). Three German Dances (Mozart). Holberg Suite (Grieg).

Potpourri of Scandinavian Folk Songs and Dances (Berens).
1.0 p.m.—"Uncle Sven and Co."—Announcers' Christmas Party.
2.0—Talk.
3.0—Records.
4.5—A Christmas Play.
5.0—Evensong from Uppsala.
6.15—Weather; News.
6.30-8.45—For Swedes Abroad.
6.30—Introduction.
6.45—"Swedish Landscape"—Se- quence (Henriksson and West- berg), with the Radio Orchestra and Choir. Conductor: Grevillius.
8.15—"The Holy Night"—Christmas Oratorio (Hilding Rosenber) by Olof Widgren, Orchestra and Radio Choir. Con- ductor: The Composer.
8.50-10.0—Svea Life Guards Band. Conductor: Grundström. The Christmas Bells (Gade). Excerpts, "The Magic Flute" (Mozart). Foerster Potpourri (Guzmán). Selection, "Hansel and Gretel" (Humperdinck). Overture, "Der Freischütz" (Weber). Reading in the interval.

STRASBOURG (France)

859 kc/s (349.2 m.); 100 kW. Transmits at intervals from 6.45 a.m.
10.45 a.m.—Protestant Service (in German).
11.30—Roman Catholic Service with Address by Mgr. Ruch, Bishop of Strasbourg; Records of Sacred Music.



Les Chanteuses de la Colombière, a popular Geneva women's choir, who will sing Christmas songs and popular melodies at Sottens (8.20 p.m.)

12.0 noon—Records (Handel, Mozart).
12.35 p.m.—News; Weather.
1.0—From the Canary Exhibition.
1.10—Music from Limoges (PTT).
1.45—Christmas Tales in Alsatian Dialect.
2.15—Waltz Records.
2.30—"Happy Christmas"—Sketch (Pierre and Robert Constantin-Brive).
3.45—Andrée Marguy (Songs).
4.0—Carols, presented by Rev. Fr. Lelong.
4.30—Records of the Scout Accor- dion Band.
4.45—See Paris (PTT).
6.40—Records of the Petits Chan- teurs à la Croix-de-Bois.
7.0—News; Topical.
7.30—Christmas Carols (Lacôme, Mattheyseus, Missa) by Gillig (Bass).
7.45—News (German, French).
8.30—Christmas Music—Station Orchestra, Conductor: Bour; Olivia Lehmann (Soprano); Marius Briçon (Oboe); André Rémond (Cello). Part I. Pot- pourri of Christmas Carols. Part II. "Das Silberni des Christkinds"—Play (Andrés). Part III. Old Christmas Music. In dulci júbilo (Vulpinus). Two Lorraine Melodies: (a) Still, ihr Winde, (b) Dreikönigslied. Hirtenmusik zur Weihnacht (Werner). Two Christmas Carols (Praetorius): (a) Ein Kind gebor'n zu Bethlehem, (b) Wie schön leuchtet der Morgen- stern. Pastoral (Vivaldi). Christmas Concerto (Böddecker). Concerto grosso per la notte di Natale (Corelli). Part IV. Old French Carols: (a) Seventeenth Century Carol: Chantons, ie vous en prie, (b) Alsatian Carol: Dors, ma colombe, (c) Carol of Provence: Un flambeau, Jean- nette, Isabelle. Reading, A

Christmas Legend (Caplet). Cello and Orchestra: Epiphany.
10.30—News (French, German).
11.0—Dance Music from Paris.

STUTT GART (Germany)

574 kc/s (522.6 m.); 100 kW.
5.0-7.0 a.m.—See Hamburg.
7.0 a.m.-3.0 p.m.—See Frankfurt.
3.0—See Königsberg.
5.0—See Frankfurt.
6.0—"The Magic Flute" (Mozart). Station Orchestra and Choir. Conductor: Keilberth. Cast: Josef von Manowarda, Walter Ludwig, Georg Hann, Max Os- wald, Margherita Perras, Trude Eipperle, Martha Martensen, Ellen Pfeil, Yella Hochreiter, Karl Schmitt-Walter, Lilli Preis- sig, Hubert Buchta; Einar Kristjánsson, Alexander Weltsch, and Three Regensburg Choir- boys.
9.0 p.m.-12.0 m't.—See Frankfurt.

TOULOUSE (Radio-Toulouse) (France)

913 kc/s (328.6 m.); 60 kW.
11.40 a.m.—March (Fucik).
11.48—Roman Catholic Address; Sacred Music.
12.0 noon—News.
12.30 p.m.—Viennese Orchestra.
12.45—Light Music.
1.15—"Joujou de Noël"—Fan- tasy.

8.0—See Rome (No. 1).
10.0—News.
10.15-11.30—Dance Music.

VIENNA (Austria)

592 kc/s (506.8 m.); 100 kW. Graz, etc. See Sunday. Transmits at intervals from 6.45 a.m.
9.0—Religious Programme.
10.0—Reading.
10.20—Talk: Christmas at the Front.
10.40—Time; News.
10.45—Vienna Symphony Orches- tra. Conductor: Konrath. Bruckbauer (Violin). Overture, "King Stephen" (Beethoven). Violin Concerto in D (Tchaikov- sky). Third Symphony (Schu- bert).
11.55 a.m.-1.30 p.m.—Winter Re- lief Concert. Station Orchestra. Conductor: Holzer.
2.0—News.
2.15—Talk with Records: Christ- mas in Austria.
2.40—Chamber Music for Wind Instruments. Vienna Philhar- monic Wind Ensemble. Octet (Huber). Wind Quartet (Rossini).
3.20—Reading (Huggenberg).
3.45—Records: "I Pagliacci" (Leoncavallo) by La Scala Milan Chorus and Orchestra.
5.0—Talk: True Prudence.
5.20—The Bad Ischl Nativity Play—Commentary by Andreas Reis- sche, from Bad Ischl.
5.50—Time; News.
6.0—Sacred Concert from the Sistine Chapel, Rome (for details, see Rome (No. 1)).
7.0—Reading (Strindberg).
7.20—Variety Concert. Station Band and Schrammel Ensemble. Conductor: Sandauer. Wollner Peasant Band. Bohème Quartet, Gloria Astor, Else Rambauek, Richard Waldemar, Franz Resl, Fritz Muliar and Ernst Dan- zinger.
9.10—News; Programmes.
9.30—Light Music by the Station Orchestra. March (Kastner). Wiener Jubelouverture (Suppé). Waltz. Schlummernde Elfen (Schönherr). Mein Teddybär (Ganglberger). Gallop from the Ballet Suite (Richardt).
9.55—News.
10.0-10.30—Light Music (contd.). March, Winzerfest (Moseimer). Traudl träumt vom Märchenland (Schieder). Ball bei Ziehrer (Schneider). Da fang' ma von vorn wieder an! (Fleming). March Potpourri, Holloderohl (Klimont). Kinder san ma froh, dass ma g'sund san! (Arnold).

WARSAW (Poland)

224 kc/s (1,339 m.); 120 kW. Cracow, etc. See Sunday. Transmits at intervals from 7.0 a.m.
8.0 a.m.—Concert. Part I, Salon Ensemble from Lodz. Part II, Military Band from Torun.
9.15—Mass from Poznan Cathedral. Celebrant: His Eminence Cardinal August Hlond.
10.57 (from Cracow)—Time; Fan- fare.
11.3—For Children.
11.30—Herman Orchestra.
12.30 p.m.—Records: Humour in Music.
1.30 (from Wilno)—Christmas in Korkozyski—Programme by the Kaskada Ensemble.
2.0—Weber Orchestra and Dan- choir, with Records.
3.30—Reading.
3.45 (from Poznan)—"A Strange Thing has happened"—Old Polish Play (Wasylewski).
4.30—Dance Music by the Rezewicz and Rynas Ensembles; at 5.10, Programme Announcements.
5.30—"The Christmas Tree"—Programme for Poles Abroad.
6.0—See Rome (No. 1).
7.0 (from Lwow)—Orchestra. Con- ductor: Sereydynski. The Five Merry Singers. March (Kroll). Waltz, "The Gipsy Baron" (Strauss). Songs (Tagliaferrri). Potpourri (Thiele). The Five Merry Singers: (a) A Patristice (Karlow- wicz), (b) Deux grenouilles (Lipczynski). Serenade, Pierrot (Mocho). Two Songs without Words (Rust). Songs (de Curtis). Waltz (Krome). The Five Merry Singers: Two Songs (Lipczynski- Krzemieniski). Aviators' March (Urbach).
8.30 (from Wilno)—Carols through- out the World. The Pro Arte Choir. Report by Konter.
9.15 (from Poznan)—Poznan Sta- tion Trio. H. Horská (Soprano). Szczepanski (Tenor). Both (Violin). Sauer and Młodziejowski (Pftes.).
10.0 p.m.-12.0 m't.—Dance Re- cords.

STATIONS IN ORDER OF FREQUENCIES AND WAVELENGTHS

kc/s	m.	kW	Station	kc/s	m.	kW	Station	kc/s	m.	kW	Station
Band No. 1. 150-300 kc/s.											
152	1973.5	5	Ankara (Turkey)	722	415.4	1	Fredrikstad (Norway)	1131	265.3	100	Hörby (Sweden)
153	1961	7	Kaunas (Lithuania)			0.1	Assiut (Egypt)			7	Turin (No. 1) (Italy)
		150	Hilversum (No. 1) (Holland)	731	410.4	3	Madrid (EAJ2) (Spain)	1140	263.2	10	Genoa (No. 1) (Italy)
			(Power 10 kW only until 2.40 G.M.T.)			5.5	Seville (Spain)			10	Trieste (Italy)
160	1875		Radio-Romania (Romania)	740	405.4	20	Tallinn (Estonia)	1149	261.1	20	LONDON NATIONAL
		150	Lahti (Finland)	749	400.5	100	Munich (Germany)			20	NORTH NATIONAL
166	1807	500	Moscow (No. 1) (U.S.S.R.)			100	Marseilles (PTT) (France)			50	SCOTTISH NATIONAL
172	1744	80	Radio-Paris (France)	758	395.8	1	Pori (Finland)	1158	259.1	10	Kosice (Czechoslovakia)
182	1648	5	Istanbul (Turkey)	767	391.1	12	Katowice (Poland)	1167	257.1	15	Monte Ceneri (Switzerland)
185	1622	20	Irkoutsk (U.S.S.R.)			60	BURGHEAD	1176	255.1	10	Copenhagen (Denmark)
187.5	1600	60	Deutschlandsender (Germany)	776	386.6	70	SCOTTISH REGIONAL	1185	253.2	60	Nice-Côte d'Azur (France)
191	1571	150	DROITWICH			0.25	Sortavala (Finland)			0.5	Cassel (Germany)
200	1500	35	Minsk (U.S.S.R.)	785	382.2	120	Toulouse (PTT) (France)	1195	251	2	Coblenz (Germany)
208	1442	16	Reykjavik (Iceland)			120	Leipzig (Germany)			25	Frankfurt (Germany)
216	1389	150	Motala (Sweden)	795	377.4	7.5	Barcelona (EAJ1) (Spain)			5	Freiburg-im-Breisgau (Ger.)
217.5	1379	100	Novosibirsk (U.S.S.R.)			50	Lwów (Poland)			2	Trier (Germany)
224	1339	120	Warsaw (No. 1) (Poland)	804	373.1	5	PENMON (Anglesey)	1204	249.2	5	Prague (No. 2) (Czechoslovakia)
		150	Luxembourg	814	368.6	70	WELSH REGIONAL	1213	247.3	60	Lille (Radio PTT Nord) (France)
232	1293	100	Moscow (No. 2) (U.S.S.R.)	823	364.5	50	Milan (No. 1) (Italy)	1222	245.5	0.3	Narvik (Norway)
		60	Kalundborg (Denmark)			12	Bucharest (Romania)			60	Rome (No. 2) (Italy)
240	1250	0.5	Vienna Experimental (Austria)			1.5	Agen (France)	1231	243.7	5	Görlitz (Germany)
		100	Kiev (No. 1) (U.S.S.R.)	832	360.6	35	Kiev (No. 2) (U.S.S.R.)			5	Gleiwitz (Germany)
248	1209.6	10	Vigra (Aalesund) (Norway)			0.4	Rueil-Malmaison (Radio 37) (France)	1235	242.9	1	Cork (Irish Free State)
253	1186	25	Tashkent (U.S.S.R.)	841	356.7	100	Berlin (Germany)	1249	240.2	17	Saarbrücken (Germany)
256.4	1170	60	Oslo (Norway)			100	Sofia (Bulgaria)			1	Bilbao (EAJ8) (Spain)
260	1153.8	100	Leningrad (No. 1) (U.S.S.R.)	850	352.9	10	Bodö (Norway)	1258	238.5	15	Riga (Latvia)
271	1107	10	Tromsø (Norway)			1	Porsgrund (Norway)			1	Florence (No. 2) (Italy)
282	1065	35	Tiflis (U.S.S.R.)			10	Stavanger (Norway)	1267	236.8	2	Nürnberg (Germany)
283	1060					3	Valencia (Spain)	1276	235.1	27	Radio-Méditerranée (France)
Band No. 2. 300-500 kc/s.											
300	1000	20	Moscow (V.C.S.P.S.)	859	349.2	10	Simferopol (U.S.S.R.)	1285	233.5	1	ABERDEEN
340	882.3	10	Saratov (U.S.S.R.)			100	Strasbourg (France)			0.25	Dresden (Germany)
347	864	10	Finmark (Norway)	868	345.6	16	Poznań (Poland)	1294	231.8	5	Klagenfurt (Austria)
350	857.1	20	Archangel (U.S.S.R.)	877	342.1	70	LONDON REGIONAL			5	Vorarlberg (Austria)
355	845.1	18	Budapest (No. 2) (Hungary)	886	338.6	15	Graz (Austria)	1303	230.2	0.5	Danzig (Danzig Free City)
359.5	834.5	40	Sverdlovsk (U.S.S.R.)			15	Linz (Austria)			0.25	Karlstad (Sweden)
375	800	10	Voronezh (U.S.S.R.)	895	335.2	10	Helsinki (Finland)	1312	228.7	2.5	Malmö (Sweden)
390	769	0.6	Boden (Sweden)			1.5	Limoges (PTT) (France)			0.25	Norrköping (Sweden)
		30	Banská-Bystrica (Czecho.)	904	331.9	100	Hamburg (Germany)	1321	227.1	0.25	Trollhättan (Sweden)
			(Power 15 kW after 5 p.m.)			10	Dniepropetrovsk (U.S.S.R.)			1.25	Magyaróvár (Hungary)
401	748	1.3	Geneva (Switzerland)	913	328.6	60	Toulouse (Radio-Toulouse) (France)	1330	225.6	2	Bremen, Hanover, Kiel, Stettin (Germany)
413.5	726	100	Moscow (No. 3) (U.S.S.R.)			32	Brno (Czechoslovakia)			0.5	Magdeburg (Germany)
431	696	0.6	Östersund (Sweden)	922	325.4	15	Brussels (No. 2) (Belgium)	1339	224	2	Lódz (Poland)
		10	Oulu (Uleaborg) (Finland)	932	321.9	12	Algiers (North Africa)			1.5	Montpellier (PTT) (France)
Band No. 3. 500-1,500 kc/s.											
518	579	0.5	Tartu (Estonia)	941	318.8	10	Göteborg (Sweden)	1348	222.6	0.5	Cairo (No. 2) (Egypt)
		0.7	Hamar (Norway)	950	315.8	100	Breslau (Germany)			0.5	Dublin (Irish Free State)
519	578	1	Innsbruck (Austria)	959	312.8	60	Poste Parisien (France)			2	Königsberg (No. 2) (Germany)
		6.3	Ljubljana (Yugoslavia)	968	309.9	30	Bordeaux-Sud-Ouest (France)			0.15	Rjukan (Norway)
527	569.3	10	Viipuri (Finland)			10	Odessa (U.S.S.R.)			2	Salzburg (Austria)
		10	Bolzano (Italy)	977	307.1	100	NORTHERN IRELAND REGIONAL			0.7	Tampere (Finland)
536	559.7	50	Wilno (Poland)			50	Bologna (Radio - Marconi) (Italy)	1357	221.1	2	Bari (No. 2) (Italy)
546	549.5	120	Budapest (No. 1) (Hungary)	986	304.3	24	Torun (Poland)			1	Rome (No. 3) (Italy)
556	539.6	100	Beromünster (Switzerland)			60	Hilversum (No. 2) (Holland)			4	Milan (No. 2) (Italy)
		100	Athlone (Irish Free State)	995	301.5	60	(Power 15 kW only until 6.10 G.M.T.)	1366	219.6	0.2	Turin (No. 2) (Italy)
565	531	10	Klaipeda (Lithuania)			13.5	Bratislava (Czechoslovakia)			2	L'Île de France (France)
		3	Pulcrmo (Italy)	1004	298.8	4	Chernigov (U.S.S.R.)	1375	218.2	0.5	Basle (Switzerland)
574	522.6	100	Stuttgart (Germany)	1013	296.2	70	MIDLAND REGIONAL	1384	216.8	7	Berne (Switzerland)
		20	Alpes-Grenoble (PTT) (France)			3	Barcelona (EAJ15) (Spain)	1393	215.4	25	Warsaw (No. 2) (Poland)
583	514.6	50	Madona (Latvia)	1022	293.5	2	Cracow (Poland)	1402	214	2	Radio-Lyons (France)
592	506.8	100	Vienna (Austria)			0.7	Oviedo (Spain)	1420	211.3	10	Stara-Zagora (Bulgaria)
601	499.2	20	Florence (No. 1) (Italy)	1031	291	100	Königsberg (No. 1) (Heilsberg) (Germany)	1429	209.9	0.5	Vaasa (Finland)
610	491.8	15	Brussels (No. 1) (Belgium)			5	Paredes (Portugal)			0.5	Alexandria (No. 2) (Egypt)
620	483.9	20	Cairo (No. 1) (Egypt)	1040	288.5	120	Leningrad (No. 2) (U.S.S.R.)	1438	208.6	2.5	Kaiserslautern (Germany)
625	480		Samara (U.S.S.R.)	1050	285.7	50	Rennes-Bretagne (France)	1456	206	0.5	Turku (Finland)
		20	Christiansand (Norway)	1059	283.3	20	W. OF ENGLAND REG'L.	1465	204.8	0.1	Antwerp (Belgium)
629	476.9	15	Lisbon (Emissora Nacional) (Portugal)	1068	280.9	10	Bari (No. 1) (Italy)			0.1	Courtrai (Belgium)
		20	Trondelag (Norway)	1077	278.6	35	Radio-Cité (Paris) (France)			1.25	Pées (Hungary)
638	470.2	120	Prague (No. 1) (Czechoslovakia)	1086	276.2	0.7	Zagreb (Yugoslavia)	1474	203.5	1	BOURNEMOUTH
648	463	100	Lyons (PTT) (France)			10	Tiraspol (U.S.S.R.)			0.3	PLYMOUTH
658	455.9	100	Cologne (Germany)	1095	274	2	Falun (Sweden)	1487	201.7	0.1	Binche (Belgium)
668	449.1	70	NORTH REGIONAL	1104	271.7	5	Madrid (EAJ7) (Spain)			0.2	Albacete (Spain)
677	443.1	100	Sottens (Switzerland)			10	Vinnitsa (U.S.S.R.)	1492	201.1	0.1	Chatelineau (Belgium)
686	437.3	20	Belgrade (Yugoslavia)	1113	269.5	11.2	Moravská-Ostrava (Czecho.)			0.7	Nîmes (France)
695	431.7	120	Paris (PTT) (France)			10	Kuldiga (Latvia)			0.5	Santiago (Spain)
704	426.1	55	Stockholm (Sweden)	1122	267.4	60	STAGSHAW (Newcastle)	1500	200	0.1	Wallonia (Belgium)
713	420.8	50	Rome (No. 1) (Italy)			15	Radio-Normandie (Fécamp) (France)			0.1	Liège Experimental, Radio-Poente (Belgium)
		1	Bergen (Norway)			0.5	Alexandria (No. 1) (Egypt)	1530	196	0.2	Karlskrona (Sweden)
722	415.4	17	Hilversum (Lopikerkapel) (Holland) (Re-broadcasts Hilversum (No. 1) after 2.40 G.M.T.)			6.25	Nyiregyháza (Hungary)	1734	173	0.1	Liepāja (Latvia)

CHILDREN'S HOUR Annual



Edited by
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 (Derek McCulloch
 of the BBC)

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