



Wireless World

Guide to Broadcasting Stations

16th Edition

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Wireless World

SCOTT

***Guide to
Broadcasting
Stations***

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EUROPEAN V. H. F. SOUND BROADCASTING STATIONS

Radio, etc.

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A GUIDE TO LISTENING

1

RECEIVERS

It is probably true that the majority of sound radio receivers spend most of their time tuned to local stations. This is a pity because much interest can be derived from listening to more distant stations and even modest receivers can pick up a number of these. It is hoped, in these few chapters, to give information which will help listeners to get the best results from their receivers and thus to obtain the best possible reception of distant signals.

There are many types of receiver, from small battery-driven portables to elaborate mains-driven table models, consoles and radiogramophones. Obviously, the larger receivers are usually capable of better results than the simple portables. For medium- and long-wave reception most receivers have an internal ferrite-rod aerial, which enables them to receive the local stations and the stronger of the more distant stations. A point to remember, however, is that these aerials are directional and give very poor results when the rod points in the direction of the transmitter. For satisfactory reception, therefore, it is worthwhile checking whether the aerial is favourably oriented. Some portable receivers have a turntable built into the base to enable them to be rotated conveniently and larger receivers sometimes have a control which rotates the aerial through 90 degrees within the cabinet. In searching the wavebands, it is easily possible to miss signals from transmitters in line with the aerial and it is a good plan, therefore, to repeat the search with the aerial at right angles to its former position. Ferrite-rod aerials are not used for short-wave reception and these directional effects are not present.

Many receivers have aerial and earth sockets and it is possible to effect a great improvement in reception by using an external aerial. Suitable forms of aerial are discussed in Chapter Two. When an external aerial is used the effect on reception of rotating the ferrite rod is much less marked and may even be absent altogether.

Often, the tuning scales of receivers are marked with a wealth of station names, but it does not follow that all these stations can be received, even with a good external aerial. Equally, it should not be assumed that stations, even if they can be received, will be picked up at precisely the point indicated by the name on the scale. The calibration of a receiver is not always exact, even when it is new, and it tends to drift as the receiver gets older. Calibration can be checked by tuning in certain stations which maintain their allotted frequencies with great accuracy. Most transmitters have a reasonably good frequency stability but the following are particularly accurate:

Station	Wavelength	Frequency
Droitwich	1500 m	200 kHz
WWV Fort Collins, U. S. A.	60 m	5 MHz
WWVH Honolulu	30 m	10 MHz
MSF Rugby, U. K.	20 m	15 MHz
	15 m	20 MHz

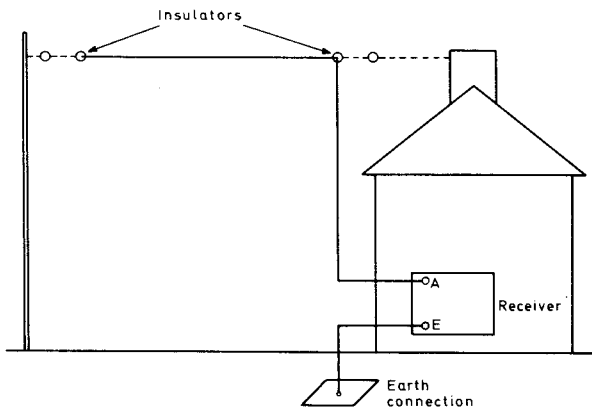
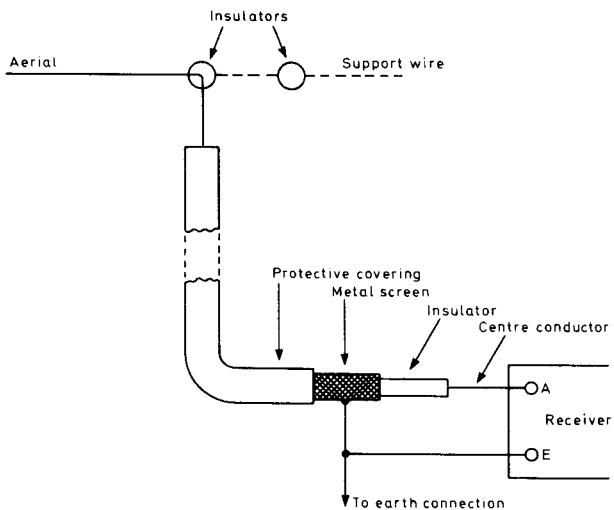


Fig. 1. Inverted-L aerial (a)



and screened down-lead (b)

AERIAL AND EARTH SYSTEMS

The type of internal aerial fitted in many long- and medium-wave receivers may be satisfactory for receiving local stations and perhaps the strongest of the more distant signals. Short-wave receivers often have telescopic aerials which can be extended to two or three feet in length and can sometimes be tilted. These, too, can provide satisfactory reception of the stronger signals.

Improved reception is often possible using an aerial external to the receiver supported, for example, on the wall of a room or in the roof-space. Results from indoor aerials are, however, often disappointing because the aerial is screened from the wanted signals by the walls and/or roof of the building and is near the electrical wiring and domestic electrical equipment. Indoor aerials are thus liable to pick up a high level of electrical interference.

For best results an outdoor aerial is essential and, if electrical interference is a problem, the aerial should be located in an interference-free area and special precautions taken to ensure that the cable connecting the aerial to the receiver does not pick up interference from the electrical system of the house.

LONG- AND MEDIUM-WAVE AERIALS

An inverted-L aerial (Fig. 1a) is quite suitable for long- and medium-wave reception. Results improve as the length of the horizontal section and the height about the ground are increased but it is often necessary to limit the length to 50 ft or less and the height to 30 ft. The horizontal section should be insulated from the supporting wires or ropes by several small porcelain insulators at each end. The downlead should be a continuous length of wire with the aerial and not joined separately because soldered and other kinds of joints are likely to deteriorate with weathering and eventually cause crackles and other effects in the receiver. The lead-in should be arranged to drop from the aerial well away from the building to avoid contact with gutters and to minimize pick-up of noise from the household electrical supply. If a tree is used to support the far end of the aerial, allowance must be made for the movement of the tree under windy conditions. The terminating wire or rope should be passed over a pulley and terminated with a suitable weight. In this way the tension in the aerial wire can be maintained independent of movement of the tree.

Sometimes it is convenient to take the downlead from the centre point of the horizontal section. The resulting aerial is known as a T-aerial and its performance is very similar to that of the inverted-L.

As a precaution against electrical interference the downlead can take the form of a coaxial cable, the inner conductor providing the connection to the receiver and the outer conductor being earthed as shown in Fig. 1b. By this means the downlead is screened so that only signals picked up by the horizontal wire are conveyed to the receiver.

Where there is insufficient space for an inverted-L or T-aerial or where electrical interference is a serious problem, a vertical rod, say 15 ft long, may be used. This should be mounted in an area where interference is a minimum (a chimney top is often a suitable place) and connected to the receiver by a screened lead as shown in Fig. 2. Aerial manufacturers market kits containing all the parts for such an installation including matching transformers for use at the aerial base and receiver input.

It is perhaps worth mentioning that many Band-I television aerials have

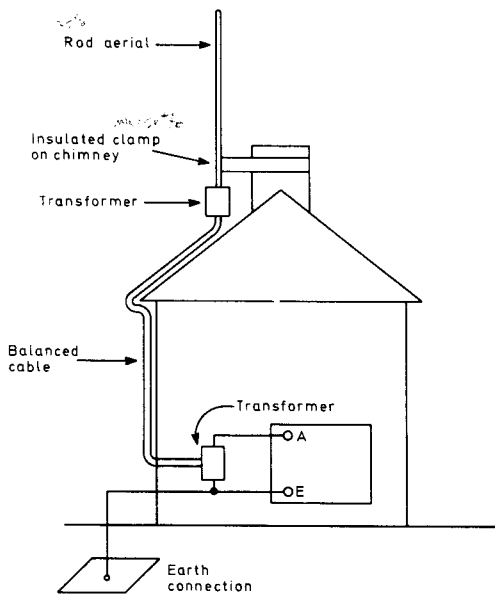


Fig. 2. Vertical rod aerial

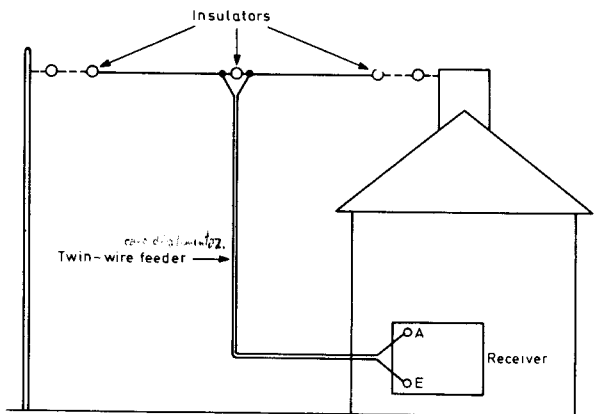


Fig. 3. Simple dipole aerial

a vertical rod connected to a coaxial downlead, and such aerials can be used satisfactorily for long- and medium-wave reception. If, therefore, such an aerial is available and no longer required for television reception, it could be used with a medium- and long-wave receiver.

SHORT-WAVE AERIALS

An inverted-L, T-aerial or vertical rod aerial is suitable for short-wave reception but where space permits there are more efficient types which can be used: these are directional aerials which should therefore be positioned to favour the direction of the transmitters it is desired to receive.

Half-wave Dipole

One suitable aerial is the half-wave dipole illustrated in Fig. 3. It consists of two horizontal arms connected to the receiver by a balanced feeder. The dipole should be mounted as high as possible but 30 ft is probably the maximum height which is convenient for most domestic situations. The length of each of the two horizontal arms should be chosen to suit the wavelength of the signals it is desired to pick up and varies between 38 ft for the 49 m band to 9 ft for the 11 m band. The aerial has maximum response to signals travelling at right angles to its length and has minimum response to transmissions arriving in line with the aerial.

A disadvantage of the simple dipole is that it is less effective on wavebands other than those for which it has been designed. If, however, the two leads of the feeder are connected together and to the receiver aerial terminal, the earth terminal being connected to ground, the aerial then becomes a T type which can be used for long- and medium-wave reception as well as for short waves. A two-pole change-over switch can be used to convert the aerial from the dipole to the T form.

Inverted-V Aerial

A better form of directional short-wave aerial is the inverted-V (Fig. 4). This provides a greater signal to the receiver than the simple dipole and

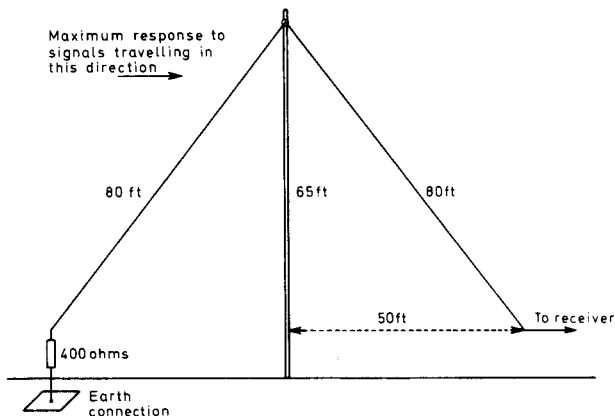


Fig. 4. Inverted-V aerial

by using the dimensions shown it can be effective over all the short-wave bands. It requires only a single support pole, one end of the aerial being earthed via a 400-ohm terminating resistor, the other being connected to the receiver input. This aerial has maximum sensitivity to signals travelling in the plane of the aerial as indicated in the diagram.

Beverage Aerial

The Beverage aerial demands length but not height and consists of a length of wire supported by a series of short poles, say 7 ft high and spaced sufficiently close to prevent undue sag. Each should be surmounted with an insulator to which the wire is bound, not looped, the aerial being terminated at the far end by a 600-ohm resistor. Wire length is not critical but it should not be less than about 150 ft and the lead-in should be direct to the receiver, without significant deviation from the general line; if this can be achieved an r. f. transformer and coaxial line are not required to connect the aerial to the receiver. This aerial favours the reception of signals travelling in line with the aerial from the terminating resistor end, and is used professionally with wire lengths up to 3 000 ft.

EARTHING

When a receiver is supplied from a 3-pole mains socket there is a natural temptation to use the earthed pole of the socket as an earth connection for the receiver. Such a connection is likely to be unsatisfactory because the physical connection of the mains earth to ground is often at a considerable distance from the mains socket. Consequently the earth path may have appreciable resistance and can carry signals capable of causing interference to radio reception.

Where a receiver is provided with a signal earth terminal, local interference may be reduced by connecting the terminal by a short lead to a copper plate or earth rod buried in the ground. A similar connection is also required for inverted-V and some other aerials. A connection to a gas pipe is usually an unsatisfactory earth and may be extremely dangerous. A connection to a metal water pipe is satisfactory only if the pipe is connected directly to an underground water main: in many modern housing estates the metal pipes within the house are connected to buried polythene pipes and do not provide a satisfactory earth connection.

In situations where a satisfactory earth connection cannot be obtained and where local interference is a serious problem it is advisable to use one of the proprietary types of anti-interference aerial which are available.

PROPAGATION

Propagation of radio waves is a complex subject and in this brief chapter we can give only a general description of those aspects which may interest the man whose hobby is listening to broadcasts generally and who may be sufficiently enthusiastic to extend his listening to more distant and difficult signals.

A knowledge of the basic facts will ensure that listening is carried out at the right time of day for a given frequency and will certainly provide more enjoyment by enabling the listener to anticipate good reception conditions and eliminate fruitless searching when propagation is poor. Awareness of the trends in propagation will leave the listener in no doubt as to causes of changes in reception and will enable him to select the most favourable periods for searching for the weaker and seldom-heard signal.

There are good reasons why a particular broadcast may within a short period improve to a degree when programme content can be appreciated or conversely may virtually disappear. It can also happen that strong signals from a given area may suddenly disappear within a minute or two, yet are received at their former strength thirty minutes or more later. Normal fading of signals may become more rapid, accompanied by a fall in strength and a corresponding increase in noise. These are some of the effects which the listener will observe and which, if carefully considered, will enable him to assess some of the changes in the ionosphere which affect reception conditions.

The basic facts governing short-wave propagation can be summarized in the following way. Short-wave radio communication is achieved by waves which strike the ionosphere (electrified layers in the earth's upper atmosphere) at an oblique angle and are reflected back to earth to cover the receiving area. The waves may be reflected again when they strike the earth and reach other receiving areas after successive bounces from the ionosphere. However in certain areas, for example in the area between the transmitter and the first earth-reflection point, the transmission may be very difficult to receive: this is a so-called skip zone.

For satisfactory short-wave communication the frequency must be chosen with care. If it is too high, the waves penetrate the ionosphere and are lost in space: if it is too low the waves are attenuated by absorption in the lower regions of the ionosphere. Best results are achieved by using the highest frequency which does not penetrate the ionosphere and the value of this, the maximum usable frequency (MUF), depends on the degree of ionization of the gases in the ionosphere. This in turn depends largely on the extent to which the ionosphere over the chosen path is illuminated by the sun. Thus the MUF varies with the time of day and with the time of year.

Any changes in the degree of ionization of the reflecting layer can affect long-distance reception and such changes can be produced by increased radiation from the sun, e.g. from blemishes on its surface such as sunspots and invisible areas called M regions. As seen from the earth, the sun takes 27 days to rotate on its axis and some effects on reception, particularly those due to long-lived M regions, tend to have a 27-day periodicity. Moreover the incidence of sunspots follows an 11-year cycle; this in turn causes an 11-year periodicity in short-wave reception conditions.

TIMING AND FREQUENCY

At any particular time, a survey of all the broadcast bands will indicate

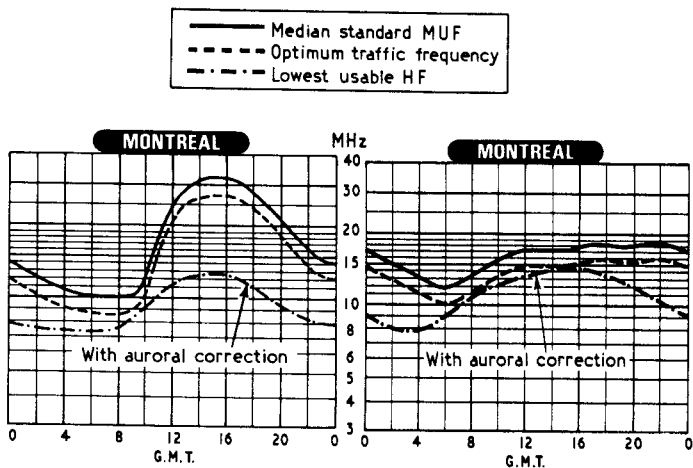


Fig. 5. Examples of HF Prediction Curves for the UK-Montreal path (a) for February and (b) for July. The optimum traffic frequency is taken as 85% of the MUF. Unlike the MUF, the LUF curves are for commercial telegraphy and assume the use of transmitters of several kilowatts and rhombic aerials. The path to Montreal passes through the Northern Auroral zone and waves here are subject to additional absorption: a correction is made for this in calculating the LUF

that some are very active (many stations being receivable, possibly with a fair amount of interference), while other bands may appear to be practically devoid of signals, apart from weak scattered radiation from stations some few hundred kilometres from the receiving site. These situations arise because transmissions are so arranged that programmes can be received at maximum signal strength in a desired area at local peak listening time. The choice is governed largely by the MUF applicable to the required ionospheric path at that time, but the precise frequency may be somewhat lower to ensure that day-to-day variations in MUF do not seriously affect reception throughout the period of the programme or of the transmission schedule, which may be required to continue without alteration for a number of months. Prediction curves are published monthly in "Wireless World" for the paths from the United Kingdom to North and South America, South Africa and the Far East. Examples of such curves are given in Fig. 5a and b. The upper curve represents the MUF and, in general, frequencies above this value are heard infrequently. The lower curve indicates the frequency below which the signal-to-noise ratio of the received signal becomes unacceptable. If frequencies between these two boundary curves are used the transmitted wave normally propagates over the particular path and provides a service in the target zone. Frequencies which approach the MUF produce the stronger signal but their propagation is more likely to be affected by ionospheric disturbances. It is impossible to predict with accuracy the variations to which signals are likely to be subjected, although short-term predictions based on daily observation of signals received can provide fair accuracy.

It is not good practice to make frequent changes of frequency in a

broadcast schedule because the listener expects to find the programme at the same spot on the tuning scale. Thus to offset the variations of MUF and make best use of the transmission paths, two or more transmitters are used to radiate the same programmes on different frequencies. Thus a programme may be radiated simultaneously on say the 17, 15 and possibly the 11 MHz bands, so that when the MUF is high the 17 MHz signal is good and well supported by 15 MHz, whilst the low-frequency channel may suffer from some absorption. When the MUF is low, the 17 MHz signal is weak and a better service is obtained on 15 and 11 MHz.

Announcements made prior to close-down and radiated by all broadcasts in the same network mention the frequency of the broadcast band which is closing and that which is opening. For any target zone the peak listening time is evening and the schedules of transmissions to that area are arranged to provide programmes at that time. Frequency separation on the short-wave bands is only 5 kHz and there may be difficulty in receiving a programme clear of interference.

The broadcast bands and their frequency limits are shown elsewhere in this book, and in general transmissions must, by international agreement, be confined to these bands. Other services are similarly restricted to certain frequencies. The highest allotted frequency used in short-wave broadcasting is 26.100 MHz: thus when the MUF exceeds that figure, maximum use of propagation conditions cannot be obtained. However, most domestic receivers have an upper tuning limit as low as 21 or even 17 MHz.

Comparison of Fig. 5a and b shows that under summer-time conditions the MUF curves flatten considerably, day-time frequencies being lower and night-time frequencies higher than in winter-time. In the summer more transmissions are crowded into fewer bands and interference problems increase.

At periods of minimum solar activity MUFs are generally lower throughout the year and the reduced spectrum available for broadcasting causes increased interference.

The h. f. predictions published in "Wireless World" illustrate the changing shape of MUF curves, and the listener is advised to retain these for future reference. Although these are not absolutely correct for the following year, the differences are generally slight.

As sunspot maximum conditions have already occurred in 1968 there will be a gradual decrease in the MUFs over the next few years until sunspot minimum conditions are reached, after which the MUFs will increase towards the next maximum.

PROPAGATION DISTURBANCES

The ionosphere is subject to disturbances which can affect radio reception. The disturbances are usually caused by sunspots and their effect is to make the reception of certain of the short-wave broadcast bands difficult or even impossible. Thus, under certain conditions, signals in the high-frequency bands may be weak although the low-frequency bands are normal. Alternatively, the high-frequency bands may be normal and the low-frequency bands weak. Under more exceptional circumstances all the broadcast bands may be inaudible.

Thus, if short-wave reception is found to be very poor, the most likely cause is a disturbance in the ionosphere and it is unlikely to last more than a few days. Most of the disturbances last only a few hours.

SIGNAL IDENTIFICATION

A broadcast programme normally originates at some particular studio location and is radiated by one or more transmitting stations which may be located elsewhere. Signal identification involves a knowledge of broadcasting organizations and their programmes, transmission schedules and target areas, rather than merely a knowledge of transmitting stations.

Identification is greatly assisted by an understanding (or even recognition) of the language used, although this can be that of either the broadcaster or his target, or occasionally neither. Interval signals, clock chimes, times of operation, types of programme and signal strength also aid identification.

ANNOUNCEMENTS AND LANGUAGES

The large number of languages used in short-wave broadcasting would be beyond the ability of one person to learn, but consistent listening to broadcasts from known countries, many radiating similar versions of the current world news, gives good practice in recognizing languages. The sound pattern of an unrecognized language should be compared with other broadcasts of languages which appear similar, remembering that a dialect may be used. Knowledge of the normal occupants of a waveband in terms of broadcasters and their programme schedules is also useful in language recognition.

INTERVAL SIGNALS

Interval signals, or particular tunes, are often used to preface the start of transmissions or programmes, typical examples being the use of Bow Bells, Greenwich Time Signal and Big Ben by the B. B. C., the Canadian National Anthem by Sackville, the Kremlin Bells by Moscow and the Kookaburra by Melbourne. Eastern European stations often use the first few bars of a well-known melody, which may have been written by an eminent composer, and there are many other instances of the use of a characteristic signal.

If these signals can be recorded on tape, a library of interval signals can be built up. Each recording should be annotated with the details of reception, to increase its usefulness as a reference guide.

MAKE-UP AND TIMING

The make-up and timing of broadcasts can often prove useful in identification. If a continuous programme is well balanced between music, speech, drama and other items, it is probably intended for home consumption and the opening and closing times of the transmission will give some idea of the time of day in the country of origin. A programme consisting of short items, with a preponderance of speech, starting or finishing at odd times, is likely to be a service for listeners outside the country. Clock chimes may narrow the choice, by fixing the time zone, and they often precede an announcement or news bulletin. Listeners should be familiar with the time zones occupied by major countries, not forgetting that some have summer time. The relaying of programmes can produce difficulties; for instance, London's Big Ben is heard from stations all over the world. Nevertheless, continued listening may provide a clue, which can be a change of atmosphere at the conclusion of a relay, or an announcement that follows.

Most broadcasts begin with a period of tone for technical alignment purposes, followed by an interval signal and announcement, then possibly a time check, and finally the programme. The frequency of the line-up

tone differs from one organization to another; thus the B. B. C. uses 1 kHz, Western Germany 900 Hz, and some authorities use 440 Hz, the musical pitch of the A above middle C.

The close-down of a transmission is also important, because of the probability of announcements, and perhaps a national anthem or clock chime.

PROGRAMME CONTENT

The type of programme may yield evidence of the nationality of the broadcasting organization and of the intended zone of reception. Domestic services can generally be recognized by the parochial nature of the news, the coverage of world events being small. Programmes for a country's nationals abroad are often a blend of domestic and world news, with commentaries in the national language; a typical example is the B. B. C. World Service. Frequent news bulletins, almost exclusively concerned with world events and given in many languages, strongly suggest a service intended for foreign listeners.

SIMULTANEOUS BROADCASTS

When a programme whose source is unknown is sufficiently intelligible to be followed to a limited extent and a guess made at the language, a search for the identical programme on different frequencies may help identification. A second receiver is useful for this, because it can be tuned to known stations operating services in the supposed language. If another transmission carrying the programme is found, it may be assumed that both originate from the same source, though not necessarily from co-sited transmitters. One transmission may be a relay, and if so the quality of the unknown transmission may not be as good as the known.

It may still be difficult to determine the location of the unknown station, though listening at times of programme change for local or regional announcements can help in reaching a conclusion. At such times there may be changes in fading characteristics and background noise, indicating the conclusion of a relay and suggesting that the signal has been affected twice by ionospheric conditions. A typical example of relays is provided by the B. B. C. World Service broadcast from the U. K. and relayed by bases in the Middle East, Far East and South Atlantic; other examples are provided by Deutsche Welle in Germany and its relay base in Africa, by Paris and Brazzaville, and by the Voice of America at Greenville and its overseas stations at Tangier, Munich, Monrovia and elsewhere.

The stronger of two signals carrying the same programme may not necessarily be that of the nearer transmitter. The receiving location may be in the skip zone of this transmitter and thus obtains a weaker signal. A better signal may also be obtained from the more distant transmitter if this is beamed towards the receiver site.

Programmes which are broadcast simultaneously on a fair number of frequencies can be generally quickly identified as belonging to the same country or programme network. Even if foreign languages cause difficulty, the sound pattern of any language may indicate that the programme is originating from the same source irrespective of the number of transmitter outlets it may be heard on. With some experience, it becomes possible to identify languages without understanding them; thus if Cairo broadcasting in Arabic is positively identified, it is then feasible to recognize Arabic programmes in the external service of another country.

If a simultaneous broadcast cannot be found, but the programme pattern can be established, a search of programme schedules issued by the various countries may show details which conform closely to those of the unknown station.

TAPE RECORDING

A tape recorder is useful to aid identification, to give positive proof of reception, and to provide a tape library of announcements and call signs, and the interval signals and jingles which characterize so many programmes and broadcast services. The tape machine should be close to the receiver and available for immediate use with its input connected to the receiver output, the mains supply switched on and a tape ready to record.

Any announcement heard which is not readily identifiable may be recorded and later played back repeatedly to help in identifying the language or recognizing some feature. Microphone facilities are useful to enable details of the time, date and approximate frequency or wavelength to be added to the recorded announcement. Such recordings could well form the beginning of an index of station announcements, which might later be arranged in country or geographical order to facilitate further research.

Tape recordings can be made of the signature tunes which most stations use either prior to their opening announcement or before particular programmes. Signature tunes are usually repeated for some minutes before the scheduled opening time, and as indicated previously, they may consist of a well-known melody characteristic of the country, of a few tones, or of bells or clock chimes. These tunes, when memorized, can provide an instant means of identification, but while some are distinctive, others are not, and a tape recording is often useful for comparison.

RECEPTION REPORTS

Reports on reception are always welcomed by broadcasting organizations, whether the listener is located in the target area or not. Such reports can provide useful information on transmissions, and help the broadcaster to assess the accuracy of the assessments on which his schedule was based and the effectiveness of the service.

Reception reports should be concise and accurate and should follow established form. This is preferable to a letter, which takes time to read and assess, and may require the extraction and tabulation of detail by qualified engineers to make it suitable for comparison with other similar reports. The assimilation of reports in a large broadcasting organization must follow a procedure requiring minimum effort, and this is possible only if listeners set out their reports in a standard manner. The information given can then be quickly and accurately assessed by junior staff, who may be trained to present the results in a form suitable for analysis by computer.

The detail which can be provided in a reception report is, however, quite large, and is of great importance when it is based on a test transmission. Information on every aspect of such transmissions is required, and each reception report is studied in detail. Where broadcasts follow a pattern or schedule of long standing, much detail can be omitted and the report can be shortened. The analysis of abbreviated reports of daily reception conditions supplies the transmission schedule engineer with a constant flow of information on signal strength, interference and overall merit. Thus any deviation from normal reception is easily detectable and can be investigated. Possibly the ionospheric path may have changed and a different frequency or aerial array may be needed; perhaps new interference has appeared and steps must be taken to eliminate or avoid it.

SINPFEMO, SINPO AND SIO

The generally recognized form for reports is based on the SINPFEMO code. Each letter signifies a particular aspect of reception and is followed by a rating figure (1 to 5) the significance of which is indicated in Table 1.

Table 1. SINPFEMO code

Symbol and Meaning		1	2	3	4	5
S	Signal strength	barely audible	poor	fair	good	excellent
I	Interference	extreme	severe	moderate	slight	nil
N	Noise	extreme	severe	moderate	slight	nil
P	Propagation disturbance	extreme	severe	moderate	slight	nil
F	Frequency of fading	very fast	fast	moderate	slow	nil
E	Modulation quality	very poor	poor	fair	good	excellent
M	Modulation depth	over-mod.	poor/ nil	fair	good	maximum
O	Overall merit	unusable	poor	fair	good	excellent

Restricted forms of this code are now more commonly used, for example SINPO, in which no indication is given of the frequency of fading or the quality and depth of modulation. An even simpler code is SIO, which embraces only three criteria, namely signal strength, interference and overall merit. The number of rating figures has also been reduced; this is possible because if a signal is classified as 1 reception is unusable, and the difference between 4 and 5 is so small in short-wave reception that the higher of these can be ignored. Where signals are poor enough to justify a rating of less than 2, or where interference is non-existent, 0 may be used.

Reception report forms are available from most broadcasting organizations on request from listeners who indicate their willingness to provide reports on a continuing basis, and some notes on the compilation of a SINPO report are given below. A full SINPFEMO report could be provided merely by adding the F, E and M criteria.

The use of the code is simple if care is taken in assessing the value of the signal. Few broadcasts other than those from a local transmitter qualify for rating of S5 or O5, but with these exceptions all other ratings are feasible. Enthusiasm should not be allowed to distort the report and the signal should be analysed with some precision for each aspect of the SINPO code.

Signal Strength

The strength of the signal reported on can be compared with that of well-known broadcasts and the assessment is even simpler if the receiver has a tuning meter indicating signal strength. Such meters are often calibrated in dB above one microvolt, but the calibration is frequently incorrect and should not be accepted unless means are available of checking it.

Interference

The assessment of interference depends on the type and character of the interfering signal. This signal is often a whistle or heterodyne note, caused by reception of two signals with a carrier-frequency difference less than the bandwidth of the receiver. Thus, if the receiver bandwidth is 8 or 9 kHz, and the interfering signal is say 3 or 4 kHz from the wanted broadcast, a heterodyne whistle of this frequency is audible. The interference is, however, more troublesome if the frequency difference is only 1 to 2 kHz, because the ear is more sensitive at these lower frequencies. Even though the strength of two interfering signals may be the same, if one is displaced 4 kHz and the other 1 kHz from the wanted signal, a rating of I4 may apply to one and of I3 to the other. Similarly, a weak background of programme is less disturbing than a whistle or steady tone. Thus the rating to be entered is a measure of the intelligibility of the wanted signal.

Noise

Atmospheric noise is seldom worse than N3, except during periods of ionospheric disturbance, summer static or the precipitation of electrified rain. Good conditions, and the use of the higher frequency bands, do not normally produce ratings better than N4. Care should be taken to ignore noise introduced by the receiver, especially when the signal is weak and the receiver is operating at full gain.

Propagation Disturbance

Propagation disturbance may be more difficult to assess: it is related to the intensity of atmospheric noise and the degree of fading of the received

signal. If noise is high and fading rapid, but the programme can be followed, a rating of P3 is justified, but rapid fading to a depth causing programme mutilation qualifies for P2. If little or no noise is apparent and the fades are shallow and do not exceed about one a second, being well held by a. g. c. , the rating should be P4 or P5.

Overall Merit

Overall merit is assessed by taking the average of the individual rating figures to the nearest whole number. There is no need to add a plus or minus sign, or to indicate small differences in merit, because each rating in the code is intended to cover a wide range of conditions and if the listener is certain that one rating does not apply the next figure must be correct.

Details of Report

The best report loses its value if the listener fails to give such essential details as his name and address, the date and time of reception, and the approximate frequency or wavelength. (The waveband alone is not enough). Any definitely identified interference should be specified, but if this cannot be done, details of the type of programme or other interfering signal should be mentioned.

LONG- AND MEDIUM-WAVE EUROPEAN STATIONS

This list includes only those stations which are believed to be active on the frequencies indicated and which may be heard in Europe. Certain stations located outside the Continent of Europe are sometimes heard and these are included in this section.

Station names shown in roman type are those located in the "European Broadcasting Area" as defined in the Copenhagen Plan. Other stations are shown in italic type. The European area is bounded on the south by 30° north latitude, that is, by the territories bounded by the Mediterranean Sea, excluding those parts of Arabia and Saudi Arabia within this area but including Iraq. On the west it encloses Iceland, Eire and the Azores, and on the east by the meridian 40° east of Greenwich.

Stations are listed against the frequency on which they have been heard, which may not in some cases be the frequency allocated in the Copenhagen Plan. Wavelength in metres is shown below the frequency, in parentheses.

Stations that have not been heard in Western Europe but which may yet be active, are indicated by an asterisk (*) after the station name.

Alternative station names or exact locations of transmitters, where known, are shown in parentheses following the usual station name. In appropriate cases station names have been given the anglicized spelling.

Abbreviations used in the list are as follows:

AFN	American Forces Network
AFRTS	American Forces Radio/Television Service
BFBS	British Forces Broadcasting Service
CAR	Cadena Azul de Radiodifusion
CBC	Canadian Broadcasting Corporation
CFR	Canadian Forces Radio
COPE	Cadena de Ondas Populares Espanolas
CRI	Compania de Radiodifusion Intercontinental
DDR	Deutscher Demokratischer Rundfunk
EMR	East Mediterranean Relay
Em.	Emissora
FAG	Greek Armed Forces
Lang.	Language
NDR	Norddeutscher Rundfunk
ORTF	Office de Radiodiffusion Television Française
Prog./Pr.	Programme
R	Radio
REM	Red de Emissoras del Movimiento
RFE	Radio Free Europe
RIAS	Rundfunk im Amerikan Sektor von Berlin
RNE	Radio Nacional de Espana
SER	Sociedad Espanola de Radiodifusion
SIN	Organizacion Nacional de Sindicatos
St.	Station
UAR	United Arab Republic
VoA	Voice of America

kHz (Metres)	Station and Country	kW	Programme
151 (1987)	Donebach (Mainflingen), Germany (W.)	70	Deutschlandfunk
	Moscow, U.S.S.R.	50	
155 (1935)	Tromsø, Norway	10	1st Programme
	Brasov, Rumania <i>Blagoveshchensk, U.S.S.R.</i>	1200	
164 (1829)	Allouis, France	1100	France-Inter/Jeunesse
	<i>Tashkent, U.S.S.R.</i>	50	
173 (1734)	Munich, Germany (W.)		"Europe No. 1"
	<i>Chita, U.S.S.R.</i>		
	Moscow, U.S.S.R.	500	
180 (1667)	Saarlouis, Germany (W.)	1000	
182	Lulea, Sweden	10	1st Programme
182 (1648)	Ankara, Turkey	240	Main Programme
	<i>Alma-Ata, U.S.S.R.</i>	50	
	<i>Petropavlovsk*, U.S.S.R.</i>		
185 (1622)	Oranienburg, Germany (E.)	750	Deutschlandsender
191 (1571)	Motala, Sweden	600	1st Programme
	<i>Birobidzhan*, U.S.S.R.</i>	50	
	<i>Tbilisi, U.S.S.R.</i>	50	
200 (1500)	Droitwich, U.K.	400	Radio 2
	<i>Ashkhabad*, U.S.S.R.</i>		
	<i>Irkutsk, U.S.S.R.</i>	100	
	<i>Kazan, U.S.S.R.</i>		
	Leningrad, U.S.S.R.	100	
	Moscow, U.S.S.R.	100	
209 (1435)	Eidar, Iceland	20	
	Reykjavik, Iceland	100	
	Azilal, Morocco	400	
	Kiev, U.S.S.R.	150	1st Programme
	<i>Khabarovsk*, U.S.S.R.</i>		
	<i>Tselinograd*, U.S.S.R.</i>		
218 (1376)	Monte Carlo, Monaco	1200	Radio Monte Carlo
	Oslo, Norway	200	
	<i>Baku, U.S.S.R.</i>	50	
	<i>Krasnoyarsk, U.S.S.R.</i>	50	
227 (1322)	Warsaw, Poland	500	1st Programme
	<i>Alma-Ata, U.S.S.R.</i>	50	
	<i>Akmolinsk*, U.S.S.R.</i>		
	<i>Ulan Bator*, U.S.S.R.</i>		
233 (1293)	Luxembourg (Junglinster), Luxembourg	600/ 1100	1st Programme
236 (1271)	Leningrad, U.S.S.R.	100	1st Programme
	<i>Magadan*, U.S.S.R.</i>		
	Moscow, U.S.S.R.	100	
245 (1224)	Kalundborg, Denmark	150	1st Programme
	<i>Ezurun, Turkey</i>	200	1st Programme
	<i>Vladivostok, U.S.S.R.</i>	100	
254 (1181)	Lahti, Finland	200	

70

kHz (Metres)	Station and Country	kW	Programme
254 (1181)	<i>Erevan*</i> , U.S.S.R.		
<i>contd</i>	<i>Dyushambe*</i> , U.S.S.R.	50	
	<i>Kazan*</i> , U.S.S.R.	100	
	<i>Voronezh*</i> , U.S.S.R.		
263 (1141)	Berlin (Königswusterhausen), Germany (E.)	100	Radio Volga (Soviet)
	Moscow, U.S.S.R.	150	
	<i>Yakutsk*</i> , U.S.S.R.		
272 (1103)	Topolna, Czechoslovakia	400	Ceskoslovensko I
	<i>Novosibirsk</i> , U.S.S.R.	150	
281 (1068)	Minsk, U.S.S.R.	100	2nd Programme
	<i>Ulan Ude*</i> , U.S.S.R.		
300 (1000)	<i>Orenburg*</i> , U.S.S.R.		
313 (958)	<i>Makhachkala *</i> , U.S.S.R.		
320 (938)	<i>Syktuykar*</i> , U.S.S.R.		
331 (906)	<i>Nukus*</i> , U.S.S.R.		
335 (896)	<i>Khabarovsk*</i> , U.S.S.R.		
340 (882)	<i>Dudinka*</i> , U.S.S.R.		
	<i>Saratov</i> , U.S.S.R.	20	Moskva 2nd Programme
350 (857)	<i>Nalchik*</i> , U.S.S.R.		
360 (833)	<i>Yuzhno Sakhalinsk*</i> , U.S.S.R.		
362 (829)	<i>Yerevan*</i> , U.S.S.R.		
366 (820)	<i>Sverdlovsk*</i> , U.S.S.R.		
375 (800)	<i>Arkhangelsk*</i> , U.S.S.R.		
380 (789)	<i>Vladivostok*</i> , U.S.S.R.		
385 (779)	Kharkov*, U.S.S.R.		
	Moscow, U.S.S.R.		
394 (761)	<i>Omsk*</i> , U.S.S.R.		
395 (759)	<i>Khabarovsk*</i> , U.S.S.R.		
400 (750)	Minsk, U.S.S.R.	50	2nd Programme
	<i>Tashkent*</i> , U.S.S.R.		
433 (693)	Oulu, Finland	10	
520 (577)	Aldrans, Austria	10	2nd Programme
	Bludenz, Austria	0.05	2nd Programme
	Lienz, Austria	10	2nd Programme
	Liezen, Austria	10	2nd Programme
	Murau, Austria	0.05	2nd Programme
	Joensuu, Finland	1	

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kHz (Metres)	Station and Country	kW	Programme
520 (577) <i>contd</i>	Bayreuth, Germany (W.) Hanover, Germany (W.) Passau, Germany (W.) Würzburg, Germany (W.)	0.2 5 0.2 0.2	Bayerischer Rundfunk Norddeutscher Rundfunk Bayerischer Rundfunk Bayerischer Rundfunk
529 (567)	Róros, Norway Ain Beida, Algeria Schwerin, Germany (E.) Beromünster, Switzerland	0.25 2×300 20 150	 DDR 1 German language
530 (566)	<i>Cheboksary, U.S.S.R.</i>		
539 (557)	Bayonne*, France Budapest, Hungary	0.05 135	France—Culture Kossuth Radio
540 (555)	<i>Grand Falls, Canada</i>	10	
548 (547)	Oran, Algeria Braunschweig, Germany (W.)	600 400/ 800	Arabic language Deutschlandfunk
	Oviedo, Spain Leningrad, U.S.S.R. Odessa, U.S.S.R. <i>Vladivostok*, U.S.S.R.</i>	50 100 100	R.N.E. Moscow 2nd, 3rd and International Service
557 (539)	Touggourt, Algeria Helsinki, Finland Greifswald, Germany (E.) Faro, Portugal Guarda, Portugal Bucharest (Kherastrau), Rumania Monte Ceneri, Switzerland Cairo III (Abu Zabaal), UAR (Egypt)	1 100 10 1 1 5 50 50	Arabic/French language 1st Programme DDR 1 1st Programme Italian language Foreign language programme
	<i>Volgograd, U.S.S.R.</i>	10	
560 (535)	<i>Peking, China</i>		
566 (530)	Bad-Ischl, Austria Feistritz Drau, Austria Greifenburg, Austria Mühlbach, Austria Neukirchen, Austria Radstadt, Austria Sofia*, Bulgaria Athlone, Eire Bologna, Italy Caltanissetta, Italy Salento, Italy Berlin, Germany (W.) Valencia do Minho, Portugal Homs, Syria	0.05 0.1 0.05 0.05 0.05 0.05 0.05 100 5 25 5 20 300	1st Programme 1st Programme 1st Programme 1st Programme 1st Programme 1st Programme 1st Programme 1st Programme 1st Programme Sender Freies Berlin 1
570 (526)	<i>Santa Clara, Cuba</i> <i>Godthaab (Kook Is.), Greenland</i>	10 25	Radio Rebelde
575 (522)	Leipzig, Germany (E.) Stuttgart, Germany (W.) Jerusalem, Israel	100 300 50	DDR 1 Süddeutscher Rundfunk Kol Israel

kHz (Metres)	Station and Country	kW	Programme
575 (522) <i>contd</i>	Riga, U.S.S.R.	100	1st Programme
580 (517)	<i>Teheran, Iran</i>	100	
584 (514)	Klagenfurt, Austria	25	2nd Programme
	Mayrhofen, Austria	0.05	2nd Programme
	Salzburg, Austria	10	2nd Programme
	Vienna, Austria	150	2nd Programme
	Thorshavn, Denmark	5	
	Paris (Romainville), France	4	France-Inter/Varietes
	Madrid (Majadahonda), Spain	200	RNE
	Sfax, Tunisia	0.05	Arabic language
	<i>Ijevsk, U.S.S.R.</i>		
590 (508)	<i>St. Johns, Canada</i>	10	
	<i>Havana, Cuba</i>	25	Radio Rebelde
	<i>Nagpur, India</i>	50	
593 (506)	Sofia, Bulgaria	200	1st Programme
	Frankfurt, Germany (W.)	300	Hessischer Rundfunk
	Hoher-Meissner, Germany (W.)	30	Hessischer Rundfunk
	Oujda, Morocco	100	Arabic language
	<i>Kaduna, Nigeria</i>	250	
	Sundsvall, Sweden	150	1st Programme
	<i>Ordzhonikidze*, U.S.S.R.</i>		
600 (500)	<i>Seoul (Suwon), Korea (S.)</i>	100	
602 (498)	<i>Riyadh, Saudi Arabia</i>	1000	
	Nicosia, Cyprus	20	
	Lyon, France	150/ 250	France-Inter/Varietes
	Karl Marx Stadt, Germany (E.)	5	Berliner Rundfunk
	Sfax, Tunisia	5	Arabic language
	Cairo (Beni Suef) I, UAR (Egypt)	50	
	Damascus, Syria	2	
611 (491)	Berlin-Köpenick, Germany (E.)	250	Berliner Rundfunk
	Grafenwöhr, Germany (W.)	10	AFN
	Kaiserslautern, Germany (W.)	10	AFN
	Nürnberg, Germany (W.)	10	AFN
	Sebaa Aioun, Morocco	140	Arabic language
	Krasnodar, U.S.S.R.	20	
	Petrozavodsk, U.S.S.R.	100	
	<i>Frunze, U.S.S.R.</i>	25	
	Sarajevo, Yugoslavia	100	Radio Sarajevo
620 (484)	Brussels (Wavre), Belgium	150	French Network
	<i>Grand Falls, Canada</i>	10	
	Santa Cruz Teneriffe, Canary Is.	100	RNE
	<i>Peking, China</i>		
	<i>Enugu*, Nigeria</i>	500	
	Vila Real Tras-os-Montes, Portugal	10	
	Mansurah—Batra I, UAR (Egypt)	450	
629 (477)	Dornbirn (Lauterach), Austria	25	1st Programme
	Innsbruck (Aldrans), Austria	25	1st Programme
	Leinz, Austria	25	1st Programme

kHz (Metres)	Station and Country	kW	Programme
629 (477)	Erfurt, Germany (E.) <i>Monrovia, Liberia</i>		DDR 1
<i>cont'd</i>	Vigra, Norway	20	Voice of Liberia
	Timisoara, Rumania	10	
	Tunis (Djedeija), Tunisia	100	
	Khabarovsk*, U.S.S.R.	30	2nd Programme
	Mersin (Cukerova), Turkey	600	
	Khabarovsk*, U.S.S.R.	300	
630 (476)	Lahore, Pakistan	100	Radio Pakistan
638 (470)	Limassol (Zyghi), Cyprus	100	BBC E.Med.Relay
	Prague, Czechoslovakia	150	Prague Programme
	La Coruna, Spain	100	RNE
	<i>Benin City*, Nigeria</i>		
	<i>Dar es Salaam, Tanzania</i>	100	Radio Tanzania
640 (469)	<i>St. Johns, Canada</i>	10	
	<i>Havana, Cuba</i>	50	
645 (465)	<i>Peking, China</i>		
	<i>Tabriz, Iran</i>	100	
647 (464)	Daventry, U.K.	150	European Service
	Daventry, U.K.	150	Radio 3
	Edinburgh, U.K.	2	Radio 3
	Glasgow, U.K.	2	Radio 3
	Newcastle, U.K.	2	Radio 3
	Redmoss, U.K.	2	Radio 3
	Simferopol, U.S.S.R.	100	
649 (462)	<i>Jeddah/Riyadh, Saudi Arabia</i>	150	
650 (461)	Lages-Terceira, Azores	0.3	Portugues Air Forces
	<i>Godhavn, Greenland</i>	5	
	<i>Indore, India</i>	20	
	<i>Maracay, Venezuela</i>	50	Radio Giradot
655 (458)	<i>Pyongyang, Korea (N.)</i>		
656 (457)	El Aaiun, Spanish Sahara	2	Radio Sahara
	Potsdam, Germany (E.)	20	Berliner Rundfunk
	Tel Aviv, Israel	100/	Kol Israel
		20	
	Bolzano, Italy	20	National Programme
	Florence, Italy	100	National Programme
	Naples, Italy	120	National Programme
	Turin, Italy	35	National Programme
	Venice, Italy	25	National Programme
	<i>Ibadan, Nigeria</i>	10	
	<i>Groznyi, U.S.S.R.</i>		
	Murmansk, U.S.S.R.	150	Radio Moscow
660 (455)	<i>Kabul, Afghanistan</i>	20	R. Afghanistan
	<i>New York, U.S.A.</i>	50	
	<i>Coro, Venezuela</i>	10	Ondas las Medanos
665 (451)	Rohrdorf, Germany (W.)	300	Sudwestfunk
	Athens III, Greece	15	Third Programme

kHz (Metres)	Station and Country	kW	Programme
665	Hofn, Iceland	5	
(451)	Lisbon I, Portugal	135	
<i>cont'd</i>	Damascus (Sabbourah), Syria	50	
	Kaunas/Vilnius I, U.S.S.R.	100	Vilnius 1
670	<i>Calcutta, India</i>	10	
(448)	<i>Caracas, Venezuela</i>	50	Radio Rumbos
674	Aigen, Austria	0.05	1st Programme
(445)	Bischofshofen, Austria	0.05	1st Programme
	Bleiburg, Austria	0.05	1st Programme
	Gloggnitz, Austria	0.05	1st Programme
	Heiflau, Austria	0.05	1st Programme
	Matrei, Austria	0.05	1st Programme
	Neumarkt, Austria	0.05	1st Programme
	Radentheim, Austria	0.05	1st Programme
	Ried-Innkreis, Austria	0.05	1st Programme
	Marseilles, France	150	Inter Varietes
	El Gawarsha, Libya	100	
	Bodø (LKD), Norway	10	
	<i>Doha*, Qatar</i>	10	
	Chernovtsy, U.S.S.R.	100	
677	Jerusalem, Jordan/Israel	200	
(443)			
680	<i>Resht, Iran (Persia)</i>	1	Radio Resht
(441)			
683	Meiningen, Germany (E.)	20	Radio DDR
(439)	Berlin, Germany (W.)	100	RIAS
	Hof (Saale), Germany (W.)	40	RIAS
	Sevilla (Dos Hermanas), Spain	250	RNE
	Belgrade, Yugoslavia	400	
690	<i>Peking, China</i>		
(434)	<i>Dacca, Pakistan</i>		
	<i>Barquisimeto, Venezuela</i>	50	R. Barquisimeto
692	Bouira, Algeria	1	
(433)	Michelet, Algeria	5	Kabyl Programme
	Nicosia, Cyprus	20	
	Suhl Wachenbrunn, Germany (E.)	250	Deutschlandsender
	Viseu, Portugal	1	
	<i>Ufa, U.S.S.R.</i>	100	
	Moorside Edge, U.K.	150	Radio 4 (North)
	Whitehaven, U.K.	1.3	Radio 4 (North)
701	Andorra, Andorra	140	Radio Andorra
(428)	Banska Bystrica, Czechoslovakia	100	Bratislava Programme
	Bratislava, Czechoslovakia	2	Bratislava Regional
	Kosice, Czechoslovakia	2	Bratislava Regional
	Prague, Czechoslovakia	30	Czechoslovak Programme
	Usti-Nad-Labem, Czechoslovakia	5	Regional Programme
	Aachen, Germany (W.)	5	Westdeutscher Rundfunk
	Aurich, Germany (W.)	2	Norddeutscher Rundfunk
	Flensburg, Germany (W.)	5	Norddeutscher Rundfunk
	Herford, Germany (W.)	2	Westdeutscher Rundfunk

kHz (Metres)	Station and Country	kW	Programme
701	Lingen-Ems, Germany (W.)	2	Norddeutscher Rundfunk
(428)	Siegen, Germany (W.)	2	Westdeutscher Rundfunk
<i>cont'd</i>	Sebaa Aioun, Morocco	140	French, English and Spanish Programmes
	Finnmark (Vadso), Norway	20	
	Istanbul, Turkey	150	
708	Cairo II (Asyut), UAR (Egypt)	100	Voice of Arabs
(423)			
710	Rennes, France	150	France-Inter/Varietes
(423)	Jerusalem, Israel	1	Kol Israel
	<i>New York, U.S.A.</i>	50	
	Donetsk, U.S.S.R.	150	
	Tallinn, U.S.S.R.	150	Tallinn II
	<i>Vladivostok*, U.S.S.R.</i>		
	<i>Caracas, Venezuela</i>	5	La Voz del la Patria
719	Limassol (Zyghi), Cyprus	100	BBC E.Med.Relay
(417)	Munich (Hölkirchen), Germany (W.)	150	Radio Free Europe
	Porto, Portugal	100	Programme II
	Ostersund, Sweden	150	1st Programme
	Sfax, Tunisia	100	
720	<i>Colon, Cuba</i>	30	Radio Rebelde
(416)			
723	<i>Jeddah, Saudi Arabia</i>	50	
(415)			
724	<i>Paramaribo, Surinam</i>	50	
(414)			
728	Klagenfurt (Lend), Austria	25	1st Programme
(412)	Schwerin (Wöbbelin), Germany (E.)	250	Deutschlandsender
	Athens I, Greece	150	
737	Hof (Saale), Germany (W.)	40	RIAS
(407)	Akureyri, Iceland	5	
	Tel Aviv, Israel	200	Kol Israel
	Poznan, Poland	300	
	Barcelona, Spain	250	RNE
	Cairo, UAR (Egypt)		
	<i>Chelyabinsk*, U.S.S.R.</i>		
740	<i>Peking, China</i>		
(405)			
746	Tlemcen, Algeria	1	Arabic and French Programmes
(402)			
	Plovdiv, Bulgaria	30	
	Cottbus (Hoyerswerda), Germany (E.)	20	R.DDR. 1
	Hilversum I, Netherlands	120	1st Programme
	<i>Ngong, Nigeria</i>	100	Voice of Nigeria
	Aleppo (Sarakeb), Syria	20	
	<i>Karaganda, U.S.S.R.</i>		
750	<i>Minhsiung, China</i>	150	
(400)			
755	Kuopio, Finland	20	
(397)	Braunschweig, Germany (W.)	200	Deutschlandfunk
	Ravensburg, Germany (W.)	40/20	Deutschlandfunk
	Lisbon II, Portugal	135	2nd Programme

kHz (Metres)	Station and Country	kW	Programme
755 (397) <i>contd</i>	Timisoara, Rumania	135	2nd Programme
760 (395)	<i>Georgetown, Guyana</i>	10	Radio Demerara
764 (393)	<i>Hurriyah (Baghdad), Iraq</i>	300	
	<i>Dakar, Senegal</i>	200	
	Sottens, Switzerland	150	French Programme
	Odessa, U.S.S.R.	10	
770 (390)	<i>New York, U.S.A.</i>	50	
773 (388)	<i>Puerto la Cruz, Venezuela</i>	10	R. Puerto la Cruz
	Bad St. Leonard, Austria	0.05	1st Programme
	Hermagor, Austria	0.05	1st Programme
	Lend, Austria	0.1	1st Programme
	Leoben, Austria	0.05	1st Programme
	Mariazell, Austria	0.05	1st Programme
	Mittersill, Austria	0.05	1st Programme
	Oberdrauburg, Austria	0.05	1st Programme
	Prutz, Austria	0.05	1st Programme
	St. Anton, Austria	0.05	1st Programme
	St. Gallen, Austria	0.05	1st Programme
	St. Gallenkirch, Austria	0.05	1st Programme
	St. Lambrecht, Austria	0.05	1st Programme
	St. Michael-im-Langau, Austria	0.05	1st Programme
	Salzburg-Lehen, Austria	1	1st Programme
	Sofia (Stolnik), Bulgaria	30	Radio Sofia
	San Sebastian, Spain	20	RNE
	Malmberget, Sweden	2	1st Programme
	Stockholm, Sweden	150	1st Programme
	Cairo (Abu Zabaal I), UAR (Egypt)	500	Commercial Programme
	Voronezh, U.S.S.R.	20	
	Sljeme, Yugoslavia	0.05	
776 (386)	<i>Zahedan, Iran</i>	100	Radio Zahedan
780 (385)	<i>Peking, China</i>		
	<i>Poona, India</i>	5	
	<i>Alma-Ata, U.S.S.R.</i>		
782 (384)	Burg-Magdeburg, Germany (E.)	250	Deutschlandsender
	Miramar (Porto), Portugal	100	
	Kiev, U.S.S.R.	100	Kiev II
	Vatican City, Vatican State	1	Radio Vaticana
	Rijeka, Yugoslavia	2	Radio Rijeka
785 (382)	Damascus (Tartus), Syria	30	
791 (379)	Limoges, France	100	France-Inter/Varietes
	Thessaloniki, Greece	50	VoA
	<i>Astrakhan, U.S.S.R.</i>		
800 (375)	<i>St. Johns, Canada</i>	1	
	Nuremberg, Germany (W.)	100	Bayerischer Rundfunk
	Amman, Jordan	100	
	<i>Bonaire, Neth. Antilles</i>	500	
	Regua, Portugal	0.25	R. Alto Doura

kHz (Metres)	Station and Country	kW	Programme
800 (375) <i>contd</i>	Madrid, Spain Leningrad, U.S.S.R.	5 100	Radio Madrid SER Leningrad II
809 (371)	Berlin, Germany (W.) <i>Delhi A, India</i> Seville, Spain Burghead, U.K. Dumfries, U.K. Redmoss, U.K. Westerglen, U.K. Crowborough, U.K. <i>Kuybychev, U.S.S.R.</i> Skopje, Yugoslavia <i>San Juan, Puerto Rico</i>	5 100 20 100 2 5 100 150 10 135 25	BBC European Service Radio Sevilla SER Radio 4 (Scottish) Radio 4 (Scottish) Radio 4 (Scottish) Radio 4 (Scottish) European Service Radio Skopje
810 (370)			
817 (367)	<i>Kyzyl*, U.S.S.R.</i>		
818 (367)	Andorra, Andorra Trieste, Italy Casablanca, Morocco Warsaw (Mokotov II), Poland Batra, UAR (Egypt)	300 25 1 300 450	R. des Valees d'Andorre 1st Programme Arabic Language Programme 2nd Programme Main Arabic Programme
820 (366)	<i>Cali (Bugá), Colombia</i> <i>Frederikshaab, Greenland</i>	50 5	La Voz del Rio Cauca
827 (363)	Sofia (Vakarel), Bulgaria Baden-Baden, Germany (W.) Freiburg, Germany (W.) Kaiserslautern, Germany (W.) Koblenz, Germany (W.) Trier, Germany (W.) Oudja, Morocco Rabat, Morocco Barcelona, Spain <i>Gorkij, U.S.S.R.</i>	100 1.5 40 3 0.5 1 100 1 5 20	Sudwestfunk Sudwestfunk Sudwestfunk Sudwestfunk Sudwestfunk Radio Barcelona SER
830 (361)	<i>Karachi, Pakistan</i>	10	Radio Pakistan
834 (360)	<i>Belize, Brit. Honduras</i>	20	Radio Belize
836 (359)	Ponta Delgada (San Miguel), Azores Ylivieska, Finland Nancy, France Beirut, Lebanon Granada, Spain Huelva, Spain Palencia, Spain Kharkov/Vinnitsa, U.S.S.R.	1 10 150 120 5 2 2 20	France-Inter/Varietes La Voz de . . SIN La Voz de . . CAR La Voz de . . REM
845 (355)	Safad, Israel Rome, Italy	1 150	Kol Israel 2nd Programme

kHz (Metres)	Station and Country	kW	Programme
845 (355) <i>contd</i>	<i>Elista, U.S.S.R.</i>	10	
850 (353)	<i>Ahmedabad A, India</i>	50	
	<i>Montevideo, Uruguay</i>	50	Radio Carve
	<i>Boston, U.S.A.</i>	50	
854 (351)	<i>Setif, Algeria</i>	0.05	Arabic language Programme
	<i>Berlin-Britz, Germany (W.)</i>	100	RIAS
	<i>Bucharest (Tincebesti), Rumania</i>	150	2nd Programme
	<i>Murcia, Spain</i>	125	RNE
855 (350)	<i>Willemstad, Curaçao, Neth. Antilles</i>	5	Radio Curom.
860 (349)	<i>Rio de Janeiro, Brazil</i>	50	Radio Mundial
	<i>Halifax, Canada</i>	10	
	<i>Toronto, Canada</i>	50	
863 (348)	<i>Blagoevgrad, Bulgaria</i>	30	
	<i>Paris, France</i>	150/ 250	France Culture
	<i>Damascus, Syria</i>	10	
	<i>Yerevan, U.S.S.R.</i>	100	
870 (345)	<i>Amman, Jordan</i>	5	
	<i>New Orleans, U.S.A.</i>	50	
872 (344)	<i>Frankfurt (Weisskirchen), Germany (W.)</i>	150	AFN
	<i>Budapest (Lakihegy), Hungary</i>	36	Petofi Radio II
	<i>Zaragoza, Spain</i>	30	R. Zaragoza
	<i>Cairo (Abu Zabaal) V, UAR (Egypt)</i>	50	Main Arabic Programme
	<i>Moscow, U.S.S.R.</i>	150	Moscow III
	<i>Perm*, U.S.S.R.</i>		
880 (341)	<i>New York, U.S.A.</i>	50	
881 (341)	<i>Berlin (K. Wusterhausen), Germany (E.)</i>	100	R. DDR 1
	<i>Bet Hilel, Israel</i>	0.05	Kol Israel
	<i>Penmon, U.K.</i>	10	Radio 4 (Welsh)
	<i>Towyn, U.K.</i>	5	Radio 4 (Welsh)
	<i>Washford, U.K.</i>	100	Radio 4 (Welsh)
	<i>Wrexham, U.K.</i>	2	Radio 4 (Welsh)
	<i>Stauropol, U.S.S.R.</i>	20	
	<i>Slavonski Brod, Yugoslavia</i>	0.05	
	<i>Titograd, Yugoslavia</i>	20	R. Titograd
890 (337)	<i>Algiers, Algeria</i>	200	International Programme
	<i>Linz, Austria</i>	20	1st Programme
	<i>Limassol (Zighy), Cyprus</i>	7.5	BFBS
	<i>Bergen, Norway</i>	20	1st Programme
	<i>Kristiansand, Norway</i>	20	1st Programme
	<i>Trøndelag, Norway</i>	20	1st Programme
	<i>Damman, Saudi Arabia</i>		
	<i>Ouchgorod, U.S.S.R.</i>	50	
899 (334)	<i>Milan, Italy</i>	150	1st Programme
	<i>Yoshkar-Ola, U.S.S.R.</i>		

kHz (Metres)	Station and Country	kW	Programme
899 (334) <i>contd</i>	Vukovar, Yugoslavia		
903 (332)	Rezaiyah, Iran	1	
908 (330)	Burg (Magdeburg), Germany (E.)	250	
	Thourah (Baghdad), Iraq	200	
	Miercurea (CIUC), Rumania	7	
	Brookmans Park, U.K.	140	Radio 4 (London)
910 (330)	Buenos Aires, Argentina	50	Radio Splendid
	Urumchi (Peking), China		
	Rajkot, India	20	
915 (328)	Makhachkala, U.S.S.R.	50	
917 (327)	Coral Bay Paphos, Cyprus	2	
	Reichenbach, Germany (E.)	3.5	Berliner Rundfunk
	Tetuan, Morocco	5	Berber Programme
	Lourenço Marques, Mozambique	50	L. Marques Radio
	Madrid, Spain	12	Radio Espana
	Ljubljana, Yugoslavia	135	
920 (326)	Halifax, Canada	5/10	
	Peking, China		
926 (324)	Brussels (Wavre), Belgium	150	
	Izmir, Turkey		Izmir Radio
	Ivanovo "IV", U.S.S.R.		
	Nis, Yugoslavia	20	Radio Nis
929 (323)	Cairo V, UAR (Egypt)	10	
930 (322)	St. Johns, Canada	5/10	
	Montserrat, Leeward Is.	200	Radio Antilles
935 (321)	Burg (Magdeburg), Germany (E.)	250	
	Berlin, Germany (W.)	10	AFN
	Agadir, Morocco	100	A Programme
	Lvov, U.S.S.R.	300	
940 (319)	Rio de Janeiro, Brazil	50	
	Montreal, Canada	50	
	Peking (Hoefi), China		
	Asmara, Ethiopia	50	Radio Ethiopia
	Punto Fijo, Venezuela	10	R. Punto Fijo
944 (318)	Unzmarkt, Austria	0.05	1st Programme
	Toulouse, France	100	Inter Varietes
	Larissa, Greece	5	FAG
	Damascus, Syria		
	Rostov na Don, U.S.S.R.	20	
950 (316)	Buenos Aires, Argentina	100	Radio Belgrano
	Sydney, Canada	10	
953 (315)	Brno-Dobrochov, Czechoslovakia	100	Radio Prague
	Plzen-Prestice, Czechoslovakia	30	Radio Prague

kHz (Metres)	Station and Country	kW	Programme
953	<i>Enugu, Nigeria</i>	10	
(315)	Las Palmas, Spain	20	SER
<i>contd</i>	Madrid, Spain	20	R. Intercontinental
955	<i>Rangoon, Burma</i>	50	
(314)			
957	Deir el Zor, Syria	30	
(313)			
960	<i>Halifax, Canada</i>	10	The Voice of Halifax
(312)	<i>Omdurman, Sudan</i>	50	
962	Eisernerz, Austria	0.05	Programme One
(312)	Ehrwald, Austria	0.05	Programme One
	Gmünd, Austria	0.05	Programme One
	Hallstadt, Austria	0.05	Programme One
	Neukirchen, Austria	0.05	Programme One
	Neumarkt, Austria	0.05	Programme One
	Obervellach, Austria	0.05	Programme One
	Prutz, Austria	0.05	Programme One
	St. Anton, Austria	0.05	Programme One
	Sofia (Varna), Bulgaria		Holiday Service
	Turku, Finland	100	Programme D
	Paris IV, France	5	Special Paris
	Tunis II (Djedeida), Tunisia	100	International
965	<i>Cuttack, India</i>		
(311)	Istanbul, Turkey	2	
970	<i>Seoul, Korea (S.)</i>	500	
(309)			
971	Bonn, Germany (W.)	5	Westdeutscher Rundfunk
(309)	Göttingen, Germany (W.)	5	Norddeutscher Rundfunk
	Hamburg, Germany (W.)	300	Norddeutscher Rundfunk
	Hanover, Germany (W.)	40	Norddeutscher Rundfunk
	Kleve, Germany (W.)	3	Westdeutscher Rundfunk
	Oldenburg, Germany (W.)	40	Norddeutscher Rundfunk
	Marrakech, Morocco	1	
	Smolensk, U.S.S.R.	150	
978	Cairo II (Asyut), UAR (Egypt)	5	
(307)			
980	Algiers, Algeria	200	Arabic Programme
(306)	<i>Rio de Janeiro, Brazil</i>	50	Radio Nacional
	<i>Peking, China</i>		
	Trieste, Italy	10	Slovak language Programme
	Göteborg, Sweden	150	Programme 1
	<i>Alma-Ata, U.S.S.R.</i>		
985	<i>Kermanshah, Iran</i>	100	Radio Kermanshah
(305)			
989	Berlin, Germany (W.)	300	RIAS
(303)	Beirut, Lebanon	100	Programme II
	Madrid (Majadahonda), Spain	50	RNE
998	Buchen-Walldürn, Germany (W.)	0.2	Suddeutscher Rundfunk
(301)	Heidelberg, Germany (W.)	10	Suddeutscher Rundfunk
	<i>Gwelo, Rhodesia</i>		
	Villa Cisneros, Spain		SER

kHz (Metres)	Station and Country	kW	Programme
998 (301) <i>contd</i>	Kishinev 'KV', U.S.S.R.	100	
1000 (300)	<i>Sao Paulo, Brazil</i>	50	Radio Record
1007 (298)	<i>Chicago, U.S.A.</i>	50	
	Kerkyra (Corfu), Greece	50	
	Hilversum (Lopik), Netherlands	120	2nd Programme
	Malaga, Spain	10	R. Peninsular
	Belgrade, Yugoslavia	150	R. Beograd
1010 (297)	<i>Coimbatore, India</i>		
	<i>Hyderabad, Pakistan</i>	10	R. Pakistan
	<i>New York, U.S.A.</i>	50	
	<i>Hanoi, Vietnam (N.)</i>		
1016 (295)	Batna, Algeria	1	
	Warnemuende (Diedrshagen), Germany (E.)		Holiday Transmission
	Mainz (Wolfsheim), Germany (W.)	300	Sudwestfunk
	Tangier, Morocco	1	
	<i>Baku, U.S.S.R.</i>	100	
1020 (294)	<i>Santa Fe, Argentina</i>	5/10	
	<i>Peking, China</i>		Radio Peking
	<i>Delhi, India</i>		
	<i>Rampur, India</i>		
	<i>Pittsburgh, U.S.A.</i>		
1025 (293)	Achenkirch, Austria	0.05	2nd Programme
	Dornbirn (Lauterach), Austria	10	2nd Programme
	Graz (Dobl), Austria	100	2nd Programme
	Hermagor, Austria	0.05	2nd Programme
	Kitzbühel, Austria	0.05	2nd Programme
	Linz (Kronstorf), Austria	100	2nd Programme
	Maria Pfarr, Austria	5	2nd Programme
	Mühlbach-am-Hochkönig, Austria	0.05	2nd Programme
	Nauders, Austria	0.05	2nd Programme
	Oetz, Austria	0.05	2nd Programme
	Scharnitz, Austria	0.05	2nd Programme
	Zell-am-Ziller, Austria	0.05	2nd Programme
	Tel Aviv, Israel	100	Kol Israel
	Rabat, Morocco	1	International Programme
	Safi, Morocco	1	Arabic Programme
	Badajoz, Spain	2	R. Badajoz. SIN
	Barcelona, Spain	5	La Voz de Cataluna. CAR
	San Sebastian, Spain	3	R. San Sebastian. SER
1030 (291)	<i>Gauhati B, India</i>	10	
	<i>Boston, U.S.A.</i>	50	
1034 (290)	Ansbach, Germany (W.)	0.25	AFN
	Bad Kissingen, Germany (W.)	0.25	AFN
	Karlsruhe, Germany (W.)	1	AFN
	Milan, Italy	50	2nd Programme
	Naples, Italy	25	2nd Programme
	Pescara, Italy	5	2nd Programme
	San Remo, Italy	5	2nd Programme
	Genoa, Italy	10	2nd Programme

kHz (Metres)	Station and Country	kW	Programme
1034 (290)	Venice, Italy	25	2nd Programme
<i>contd</i>	Porto Alto, Portugal	50	
1035 (290)	Tallinn, U.S.S.R.	100	Tallinn I
	Cap Haitien, Haiti	10	R. St. 4VEH
1040 (289)	<i>Sao Paulo, Brazil</i>	50	R. Tupi de S. Paulo
	<i>Bombay A, India</i>	50	
	Safi, Morocco		
1043 (288)	Aye Les Marche, Belgium	10	French Network
	Dresden-Wilsdruff, Germany (E.)	250	R. DDR. 1
	Thessaloniki, Greece	5	Thessaloniki II
	Sebaa Aioun, Morocco	25	Sebaa Aioun III
	<i>Tbilisi, U.S.S.R.</i>	100	
1050 (286)	<i>Taiwan, Formosa</i>		
	Tetuan, Morocco	20	
	<i>New York, U.S.A.</i>	50	
1052 (285)	Bad Goisern, Austria	0.05	Programme I
	Eisenkappel, Austria	0.05	Programme I
	Gmünd, Austria	0.05	Programme I
	Hopfgarten, Austria	0.05	Programme I
	Langenfeld, Austria	0.05	Programme I
	Neukirchen, Austria	0.05	Regional Programme
	Oberwölz, Austria	0.05	Programme I
	Pfunds, Austria	0.05	Programme I
	Spittal-Drau, Austria	0.05	Programme I
	Heiflau, Austria	0.05	Programme I
	Suhl, Germany (E.)	5/20	Radio DDR
	Puttbus, Germany (E.)		Holiday Transmission
	Tripoli, Libya	50	
	Bucharest (Bacau), Rumania	50	2nd Programme
	Barnstaple, U.K.	2	Radio 4 (West)
	Start Point, U.K.	100	Radio 4 (West)
1060 (283)	<i>Quebec, Canada</i>	10	
	<i>Shiraz, Iran</i>	10	Radio Shiraz
	Cairo, UAR (Egypt)		
1061 (283)	Kalundborg, Denmark	60	2nd Programme
	Joannina, Greece		AN. Edho Pyrgos/Joanina
	Cagliari, Italy	10	1st Programme
	Catania, Italy	2	1st Programme
	Leghorn, Italy	1	1st Programme
	Udine, Italy	2	1st Programme
	Verona, Italy	2	1st Programme
	Norte II, Portugal	50	Programme 1
	<i>Saransk, U.S.S.R.</i>		
	Diyarbakir, Turkey	300	2nd Programme
1070 (280)	<i>Buenos Aires, Argentina</i>	110	R. El Mundo
	<i>Sackville, Canada</i>	50	
	Paris II, France	100	Inter Varietes
	Mesolongion, Greece		
	<i>Delhi, India</i>	20	

kHz (Metres)	Station and Country	kW	Programme
1070 (280)	<i>Rajkot, India</i>		
<i>contd</i>	<i>Alma-Ata, U.S.S.R.</i>		
	Dniepropetrovsk, U.S.S.R.	20	1/2nd Programme
	<i>Vladivostok, U.S.S.R.</i>		
1079 (278)	Souk Ahras, Algeria	1	
	Plauen, Germany (E.)	20	Berliner Rundfunk
	Bremen, Germany (W.)	100	Radio Bremen (Day)
	Orestias, Greece		
	<i>Lourenço Marques*, Mozambique</i>		Programme D
	Katowice, Poland	60	
	Valencia, Spain	25	R. Peninsular
	<i>El Minya, UAR (Egypt)</i>	5	
	<i>Luxor, UAR (Egypt)</i>	5	
	Koper, Yugoslavia	6	
1080 (278)	<i>Belo Horizonte, Brazil</i>	0.25/1	Radio Minas
	<i>Hartford, U.S.A.</i>	50	
1085 (277)	<i>R. Bayrak, Turkey</i>	300	
1088 (276)	Droitwich, U.K.	150	Radio 4 (Midland)
	Norwich, U.K.	7.5	Radio 4 (Midland)
	Tirana, Albania	50	
	<i>Luanda, Angola</i>	10	
	Grossarl, Austria	0.05	Programme I
	Schrurns, Austria	0.05	Programme I
	St. Lambrecht, Austria	0.05	Programme I
	<i>Lagos, Nigeria</i>	20	Radio Nigeria
	<i>Perm, U.S.S.R.</i>	20	
	<i>Tashkent, U.S.S.R.</i>		
1090 (275)	<i>Peking, China</i>		Radio Peking
	Antequera, Spain	2	R. Atlantico SER
	Cabra, Spain	2	Voz de Cordoba SIN
	<i>Baltimore, U.S.A.</i>	50	
1093 (274)	<i>Kerman, Iran</i>	1	Radio Kerman
1097 (273)	Bratislava-Kostolany, Czechoslovakia	180	Bratislava 1
	Las Palmas, Spain	2	R. Atlantico SIN
	Madrid, Spain	20	La Voz de Madrid REM
	Sama Langreo, Spain	2	R. Juv. de Asturias CAR
	San Sebastian, Spain	2	La Voz de Guipuzcoa
1100 (272)	<i>Sao Paulo, Brazil</i>	50	R. Nac. de Sao Paulo
	<i>Tamsui, China</i>	100	
	<i>Esfahan (Mashed), Iran</i>	10	Radio Esfahan
	<i>Caracas, Venezuela</i>	10	Radio Cultura
1106 (271)	Munich, Germany (W.)	100	AFN
	Alcoy, Spain	2	Radio Alcoy SER
	Ceuta, Spain	2	Radio Ceuta SER
	Huesca, Spain	2	Radio Huesca SER
	La Coruna, Spain	2	Radio Coruna SER

kHz (Metres)	Station and Country	kW	Programme
1106 (271) <i>contd</i>	Leon, Spain	2	Radio Leon SER
	Linares, Spain	2	Radio Linares SER
	Manresa, Spain	2	Radio Manresa SER
	Salamanca, Spain	2	Radio Salamanca SER
	Vitoria, Spain	2	Radio Vitoria SER
	Vilnius, U.S.S.R.	100	Vilnius II
1110 (270)	<i>Buenos Aires, Argentina</i>	5/20	Radio Argentina
	<i>St. Johns, Canada</i>	10	
	<i>Gulbanga, India</i>		
	<i>Charlotte, U.S.A.</i>	50	
	<i>Carupano, Venezuela</i>	10	Radio Carupano
1115 (269)	Aosta, Italy	2	2nd Programme
	Bari, Italy	50	2nd Programme
	Bologna, Italy	60	2nd Programme
	Messina, Italy	5	2nd Programme
	Pisa, Italy	25	2nd Programme
	Trieste, Italy	6	2nd Programme
	Tangier, Morocco	10	Arabic Programme
	Alta, Norway	0.25	
	Arendal, Norway	0.25	
	Bo Vesteralen, Norway	1	
	Lista, Norway	0.3	
	Mo I Rana, Norway	0.02	
	Namsos, Norway	1	
	Notodden, Norway	1	
	Odda, Norway	0.25	
	Teruel, Spain	2	Radio Teruel
	Kaliningrad, U.S.S.R.	20	1st Programme
1120 (268)	<i>Salvador, Brazil</i>	10	R. Cultura de Brazil
	<i>Peking, China</i>		Radio Peking
	<i>Srinagar (Kashmir), India</i>	1	Radio Kashmir
	<i>Maracaibo, Venezuela</i>	10	Ondas del Lago
1124 (267)	Bruck-Mur, Austria	0.1	Regional Programme
	Eisenerz, Austria	0.1	Regional Programme
	Gmünd, Austria	0.1	Regional Programme
	Hopfgastein, Austria	0.1	Regional Programme
	Imst, Austria	0.1	Regional Programme
	Judenburg, Austria	0.1	Regional Programme
	Krems, Austria	0.05	Regional Programme
	Kufstein, Austria	0.1	Regional Programme
	Mayrhofen, Austria	0.1	Regional Programme
	Mürzzuschlag, Austria	0.1	Regional Programme
	Obdach, Austria	0.05	Regional Programme
	Obervellach, Austria	0.1	Regional Programme
	Rottenmann, Austria	0.1	Regional Programme
	Tamsweg, Austria	0.1	Regional Programme
Villach, Austria	0.1	Regional Programme	
Houdeng, Belgium	10	French Network	
Varna, Bulgaria	10	1st/2nd Programme	
Beyda, Libya	1000		

kHz (Metres)	Station and Country	kW	Programme
1124	Barcelona, Spain	3	R. Espana de Barcelona
(267)	Leningrad, U.S.S.R.	20	3rd Programme
<i>contd</i>			
1130	<i>Rio de Janeiro, Brazil</i>	5/10	Radio Maua
(266)	<i>Calcutta B, India</i>	10	East Regional
	<i>Riyadh, Saudi Arabia</i>		SB 9720 kHz
	<i>New York, U.S.A.</i>	50	
1133	Alftafjörður, Iceland	0-02	
(265)	Kuwait, Kuwait	10	
	Aranda de Duero (Burgos), Spain	2	R. Juv. de Burgos CAR
	Bilbao, Spain	5	R. Juv. de Vizcaya CAR
	Caceres (REM), Spain	5	La Voz de Extramadura
	Cadiz, Spain	2	R. Juv. de Cadiz CAR
	Calahorra, Spain	2	R. Juv. de Calahorra CAR
	Castellon (REM), Spain	1	La Voz de Castellon
	Guadalquivir (Sevilla) (SIN), Spain	5	Voz de Guadalquivir
	Jaen (SIN), Spain	5	Voz de Jaen
	Malaga (CAR), Spain	5	R. Juv. de Malaga
	Murcia (CAR), Spain	2	R. Juv. de Murcia
	Oviedo (REM), Spain	2	La Voz de Asturias
	Palencia (REM), Spain	2	La Voz de Palencia
	Tarragona (REM), Spain	5	La Voz de Mediterraneo
	Vigo (REM), Spain	5	La Voz de Vigo
	Zamora (SIN), Spain	2	La Voz de Zamora
	Zaragoza (CAR), Spain	5	R. Juv. de Zaragoza
	Dubrovnik (SRDJ), Yugoslavia	2	
	Hvar, Yugoslavia	0-05	
	Osijek, Yugoslavia	2	
	Rijeka, Yugoslavia	20	Radio Rijeka
	Split, Yugoslavia	50	Radio Split
	Zadar, Yugoslavia	2	
	Zagreb, Yugoslavia	135	Radio Zagreb
1136	Avila, Spain	15	Radio Credos SIN
(264)			
1139/55	Leon (REM), Spain	2	La Voz de Leon
(263)			
1140	<i>Sydney, Canada</i>	10	
(263)	<i>Sylhet, Pakistan</i>	10	Radio Pakistan
	<i>Poro, Philippines</i>	1000	VoA
	<i>Richmond, U.S.A.</i>	50	
1142	Constantine, Algeria	40	Arabic Programme
(263)	Abtenau, Austria	0-05	Programme I
	Bad-Ausee, Austria	0-05	Programme I
	Bad-Ischl, Austria	0-05	Programme I
	Landeck, Austria	0-05	Programme I
	Mittersill, Austria	0-05	Programme I
	Neuberg, Austria	0-05	Programme I
	Reutte, Austria	0-05	Programme I
	Scheifling, Austria	0-05	Programme I
	Saalfelden, Austria	0-05	Programme I
	St. Gallen, Austria	0-05	Programme I
	St. Gallenkirch, Austria	0-05	Programme I
	Zwettl, Austria	0-05	Programme I

kHz (Metres)	Station and Country	kW	Programme
1142 (263)	Bremerhaven, Germany (W.)	5	AFN
<i>cont'd</i>	Göppingen, Germany (W.)	0.25	AFN
	Hersfeld, Germany (W.)	0.25	AFN
	Schweinfurt, Germany (W.)	0.25	AFN
	Stuttgart-Hirschlanden, Germany (W.)	10	AFN
	Ulm, Germany (W.)	1	AFN
	Würzburg, Germany (W.)	0.25	AFN
	Athens, Greece	20	FAG
	Riga, U.S.S.R.	50	
	Kaliningrad*, U.S.S.R.		
1150 (261)	<i>Mar del Plata, Argentina</i>	25/5	Radio Atlantica
	<i>St. Johns, Canada</i>	10/5	
	<i>Rawalpindi, Pakistan</i>	10	
1151 (261)	Judenburg, Austria	1	Programme I
	Marakech, Morocco	1	Marakech II
	Cluj, Rumania	50	
	Scarborough, U.K.	2	Radio 4 (North)
	Stagshaw, U.K.	100	Radio 4 (North)
1154 (260)	Ciudad Real, Spain	3	La Voz de C.R. SIN
1155 (260)	Beni Suef, UAR (Egypt)	50	
1160 (259)	Kardzali, Bulgaria	30	
	Kolarovgrad, Bulgaria	30	
	Strasbourg, France	150	Inter Varietes
	Toledo (SER), Spain	2	Radio Toledo
	<i>Dyushambe, U.S.S.R.</i>		
1165 (258)	<i>Kars, Turkey</i>	2	
1169 (257)	Heilbronn, Germany (W.)	10	Suddeutscher Rundfunk
	Ulm, Germany (W.)	4	Suddeutscher Rundfunk
	Thessaloniki, Greece	10	FAG
	Jerusalem, Israel	1	Kol Israel
	Porto, Portugal	10	Radio Renascenca
	Kiev, U.S.S.R.	150	Relays Moscow
	Beli Kris Koper, Yugoslavia	20	Radio Koper
	Ljubljana, Yugoslavia		AN. Ljubljana
1170 (257)	<i>Udaipur, India</i>		
	<i>Wheeling, U.S.A.</i>	50	
1176 (255)	<i>Van, Turkey</i>	2	
1178 (255)	<i>Okinawa, Ryukyu Is.</i>	1000	VoA
	Barcelona (RNE), Spain	20	Radio Peninsular
	Hörby, Sweden	100	Programme 1
	<i>Aswan, UAR (Egypt)</i>	50	
	<i>Quena, UAR (Egypt)</i>	10	
1180 (254)	<i>Rio de Janeiro, Brazil</i>	50	Radio Globo
	<i>Jubbulpore, India</i>	50	
	<i>Marathon Key (Florida), U.S.A.</i>	50	Radio Marathon (VoA)
1187 (253)	Szolnik, Hungary	135	Radio Budapest II
	Casablanca, Morocco	1	

kHz (Metres)	Station and Country	kW	Programme
1187	Cuenca (RNE), Spain	5	Radio Peninsular
(253)	Ponferrada, Spain		R. Juv. la Voz de P
<i>contd</i>	Seville, Spain	5	Radio Peninsular
1190	<i>Peking, China</i>		
(252)	<i>Barranquilla, Colombia</i>	5	La Voz de la Costa
	<i>Inchon (Wonju), Korea (S.)</i>	50	
1193	Albacete (CAR), Spain	2	Radio Juv. de Albacete
(252)			
1195	<i>Dhahran, Saudi Arabia</i>		Aramco Radio
(251)			
1196	Munich, Germany (W.)	300	VoA
(251)	Agadir, Morocco	20	Berber Programme
	Portalegre, Portugal	1	
	Alexandria, UAR (Egypt)	10	
1200	<i>Minhsiung, China</i>	100	
(250)	<i>Caracas, Venezuela</i>	10	Radio Tiempo
1201	Morocco		
(250)			
1205	Bordeaux, France	100	Inter Varietes
(249)	Akko, Israel	20	
	Krakow, Poland	60	Radio 1 (Polish)
	Rzeszow, Poland	60	Radio 1 (Polish)
	Subotica, Yugoslavia	2	Regional + Radios Beograd and Novi Sad
1210	<i>Peking, China</i>		
(248)	Agrinion*, Greece		
	<i>Philadelphia, U.S.A.</i>	50	
1214	Scutari, Albania		Radio Tirana
(247)	Radio Malta, Malta	1	Radio Malta
	Brookmans Park, U.K.	50	Radio 1 + 2
	Brighton, U.K.	1	Radio 1 + 2
	Burghead, U.K.	20	Radio 1 + 2
	Droitwich, U.K.	30	Radio 1 + 2
	Fareham, U.K.	1	Radio 1 + 2
	Hull, U.K.	0.15	Radio 1 + 2
	Lisnagarvey, U.K.	10	Radio 1 + 2
	Londonderry, U.K.	0.5	Radio 1 + 2
	Moorside Edge, U.K.	50	Radio 1 + 2
	Newcastle, U.K.	2	Radio 1 + 2
	Plymouth, U.K.	0.5	Radio 1 + 2
	Postwick, U.K.	1	Radio 1 + 2
	Redmoss, U.K.	2	Radio 1 + 2
	Redruth, U.K.	2	Radio 1 + 2
	Washford, U.K.	60	Radio 1 + 2
	Westerglen, U.K.	40	Radio 1 + 2
	Kursk, U.S.S.R.	20	
	Tallinn II, U.S.S.R.	200	
1220	<i>Rio de Janeiro, Brazil</i>		
(246)	<i>Moncton, Canada</i>	10	
	<i>Peking, China</i>		
	<i>Cleveland, U.S.A.</i>	50	

kHz (Metres)	Station and Country	kW	Programme
1223	Stara Zagora, Bulgaria	30	Radio 1
(245)	Rimini, Italy	5	Rimini II
	Bloemendaal, Netherlands	0.05	
	Madrid III (RNE), Spain	50	Third Programme
	Falun, Sweden	100	First Programme
1230	<i>Rosario, Argentina</i>	15	Radio Splendid
(244)	<i>Peking, China</i>		
	<i>Bombay, India</i>	50	
	<i>Riyadh, Saudi Arabia</i>		
1232	Bratislava-Prievoz II,		
(244)	Czechoslovakia	30	Bratislava
	Hradec Kralove, Czechoslovakia	3	Regional
	Kosice-Presov, Czechoslovakia	100	Bratislava
	Orava-Dolnykubin, Czechoslovakia	2	Bratislava
	Tangier, Morocco	50	Voice of Morocco
1240	<i>Varanasi, India</i>	10	
(242)			
1241	Brest, France	20	France Culture
(242)	Lille II, France	20	France Culture
	Lyons, France	20	France Culture
	Marseilles, France	20	France Culture
	Nancy, France	20	France Culture
	Nice, France	20	France Culture
	Rennes, France	20	France Culture
	Vaasa, Finland	25	
	Crnomelj, Yugoslavia	0.05	
	Radlje, Yugoslavia		
	Kiev, U.S.S.R.	50	
1250	<i>Matane, Canada</i>	5/10	
(240)	Cork, Eire	10	Radio Eireann
	Dublin, Eire	10	Radio Eireann
	<i>Sangli, India</i>	20	
	Balatonszabadi, Hungary	135	
	Hilversum (Lopik), Netherlands	10	Hilversum III
	<i>Khabarovsk, U.S.S.R.</i>		"Mayak"
1259	Rhodes, Greece	150	VoA
(238)	Wroclaw, Poland	50	
	Zielona Gora, Poland	30	
	Valencia, Spain	3.5	Radio Valencia SER
1260	<i>Boston, U.S.A.</i>	5	
(238)			
1268	Neumünster, Germany (W.)	600	Deutschlandfunk
(236)	Astorga, Spain	2	R. Popular COPE
	Madrid, Spain	2	
	Las Palmas (Canary Is.), Spain	20	R. ECCA COPE
	Mallorca (Palma de), Spain	2	R. Popular COPE
	Novi Sad, Yugoslavia	84	R. Novi Sad
1270	<i>Buenos Aires, Argentina</i>	30/5	R. Prov. de BA, La Plata
(236)	<i>Goiania, Brazil</i>	10	R. Brasil Central
	<i>Sydney, Canada</i>	10	
	<i>Agartala, India</i>	10	
	<i>Kanghwa Do, Korea</i>	50	Voice of UN Command

kHz (Metres)	Station and Country	kW	Programme
1277 (235)	Strasbourg, France	100	France Culture
	Florina, Greece	10	FAG
	Badajoz*, Spain	2	COPE
	Cuidad Real*, Spain	2	COPE
	Aswan, UAR (Egypt)	10	Arabic Programme
	Moscow, U.S.S.R.	20	Moscow III
1280 (234)	Kabul (Tscharchi), Afghanistan	100	Radio Kabul
	Rio de Janeiro, Brazil	50	Radio Tupi
	Quebec, Canada	10/5	
1286 (233)	Prague, Czechoslovakia	100	Ceskoslovensko I
	Rimavska-Sobota, Czechoslovakia	2	Ceskoslovensko I
	Tel Aviv, Israel	7.5	Galei Zahal
	Lisbon, Portugal	2	R. Renascenca
1295 (232)	Rabat, Morocco	0.250/	
		1	Rabat III
	Phillipsburg, Neth. Antilles	10	Voice of St. Maarten
	Baku, U.S.S.R.		
	Crowborough, U.K.	600	European Service
	Foxdale (Isle of Man), U.K.	2	Manx Radio
	Vranje, Yugoslavia	6	
1300 (231)	Moncton, Canada	5	
	Parbhani, India	20	
1302 (230)	Antalaya, Turkey	600	1st Programme
1304 (230)	Constantine, Algeria	20	2nd Programme
	Oran (Trembles), Algeria	20	2nd Programme
	Bamberg, Germany (W.)	0.25	AFN
	Berchtesgaden, Germany (W.)	0.25	AFN
	Fulda, Germany (W.)	0.25	AFN
	Heidelberg, Germany (W.)	1	AFN
	Regensburg, Germany (W.)	0.25	AFN
	Wertheim, Germany (W.)	0.25	AFN
	Haifa, Israel	1	Galey Tsahal
	Gdansk, Poland	60	
	Stettin, Poland	160	
1307 (230)	Baghdad, Iraq	20	
	Adana, Turkey	2	
1310 (229)	Peking, China		
	Fort de France, Martinique	50	ORTF
	Portland, U.S.A.	5	
1313 (228)	Tirana*, Albania		
	Ehrwald, Austria	0.05	Regional
	Freisach, Austria	0.05	Regional
	Hallstadt, Austria	0.05	Regional
	Haslach, Austria	0.05	Regional
	Kindberg, Austria	0.05	Regional
	Knittelfeld, Austria	0.1	Regional
	Kötschach, Austria	0.1	Regional

kHz (Metres)	Station and Country	kW	Programme
1313 (228)	Liezen, Austria	0.05	Regional
	Maria Pfarr, Austria	0.05	Regional
<i>contd</i>	Murau, Austria	0.05	Regional
	Oetz, Austria	0.05	Regional
	Rauris, Austria	0.05	Regional
	Trieben, Austria	0.05	Regional
	Völkermarkt, Austria	0.05	Regional
	Wolfsberg, Austria	0.05	Regional
	Florina, Greece	1	FAG
	Pesaro, Italy	2	2nd Programme
	Stavanger, Norway	100	
	Constanza, Rumania	2	1st Programme
	Craiova, Rumania	2	1st Programme
	Zaragoza, Spain		RNE
	Kharkov*, U.S.S.R.		
	Bjelovare, Yugoslavia	0.05	
1320 (227)	Scutari, Albania	0.2	
	<i>Enugu, (Nigeria)</i>	10	
	<i>New Glasgow, Canada</i>	5	
	<i>Taiwan, Formosa</i>	1	
	<i>Rampur, India</i>	10	
1322 (227)	Leipzig (Wiederau), Germany (E.)	150	Radio Vltava + Soviet Military Pr.
	Safi, Morocco	1	2nd Programme
	Santarem, Portugal	0.15	R. Ribatejo
1323 (227)	Athens, Greece	20	FAG
1325 (226)	<i>Teheran, Iran</i>	100	Radio Iran
1330 (225)	<i>Bikaner, India</i>	20	
1331 (225)	Aosta, Italy	2	1st Programme
	Bari, Italy	25	1st Programme
	Palermo, Italy	12.5	1st Programme
	Pescara, Italy	25	1st Programme
	Rome, Italy	150/ 300	1st Programme
	Trento, Italy	1	1st Programme
	Udine, Italy	1	1st Programme
	Funchal, Madeira (Portugal)	1	Emmissora Nacional
	Elvas, Portugal	0.1	
	Aleppo (Sarakeb), Syria	2	
	Kohtla Jarve, U.S.S.R.	20	
	Parnu, U.S.S.R.	20	
1340 (224)	<i>Belo Horizonte, Brazil</i>	25/5	Radio Guarani
	<i>Peking, China</i>		
	Pecs, Hungary	15	Petoefi Radio I
	Nyiregyhaza, Hungary	25	Petoefi Radio I
	Budapest, Hungary	80	Petoefi Radio I
	Lisnagarvey, U.K.	100	Radio 4 (Northern Ireland)
	Londonderry, U.K.	0.25	
1345 (223)	<i>Kuwait, Kuwait</i>	1/200	

kHz (Metres)	Station and Country	kW	Programme
1347 (223)	Kavala, Greece	1	FAG
1349 (222)	Korce, Albania	0.2	Radio Korca
	Bordeaux, France	20	France Culture
	Grenoble I, France	20	France Culture
	Limoges, France	20	France Culture
	Nantes, France	10	France Culture
	Toulouse, France	20	France Culture
	Gyor, Hungary	0.4	Petoeft Radio I
	Szolnik, Hungary	2	Petoeft Radio I
	Beni Mellal, Morocco	0.25	1st Programme
	Kuldiga, U.S.S.R.	20	
	Madona (Riga), U.S.S.R.	20	
	Valmiera, U.S.S.R.	20	
1350 (222)	Norfolk, U.S.A.		
	Tbilisi, U.S.S.R.		
1352 (222)	Okinawa, Ryukyu Is.	100	Far East B'cast Co.
1358 (221)	Tirana, Albania		Radio Tirana
	Berlin (Köpenick), Germany (E.)	250	Berliner Welle
	Bremerhaven, Germany (W.)	20	
	Eilat, Israel	1	Kol Israel
	Sao Gabriel, Portugal	100	
	Djurdjevac, Yugoslavia	0.05	
1360 (221)	Dharwar A, India	10	
1367 (219)	Beersheba, Israel	5	Gahley Tshah
	Bari, Italy	1	3rd Programme
	Catania, Italy	1	3rd Programme
	Florence, Italy	2	3rd Programme
	Genoa, Italy	10	3rd Programme
	Messina, Italy	1	3rd Programme
	Milan, Italy	10	3rd Programme
	Naples, Italy	12.5	3rd Programme
	Palermo, Italy	2	3rd Programme
	Pisa, Italy	1	3rd Programme
	Rome, Italy	5	3rd Programme
	Sassari, Italy	2	3rd Programme
	Trento, Italy	0.1	3rd Programme
	Turin, Italy	5	3rd Programme
	Venice, Italy	25	3rd Programme
	Lublin, Poland	60	
	Bialystok, Poland	60	
	Lodz, Poland	60	
	Porto, Portugal	10	
	Savies, Switzerland	0.5	French Programme
	Molve, Yugoslavia	0.05	
1370 (219)	Recife, Brazil	5	R. Continental
	Delhi C, India	10	
	Ellsworth, U.S.A.	5	
1375 (218)	St. Pierre et Miquelon, (Off Canada)	4	

kHz (Metres)	Station and Country	kW	Programme
1376 (218)	Lille, France	150/ 250	France Inter/Varietes
1380 (217)	Vinnitsa, U.S.S.R.		
1385 (217)	Santiago, Chile	50	R. Cruz del Sur
	Athens, Greece	50	2nd Programme
	Inca, Spain	2	R. Juv. de Baleares CAR
	La Coruna, Spain	2	R. Juv. de Galicia CAR
	Madrid, Spain	2	Radio Centro SIN
	Orense, Spain	2	Voz del Mino SIN
	Kaunas, U.S.S.R.	150	Radio Kaliningrad
1390 (216)	Ahwaz, Iran	100	Radio Ahwaz
1394 (215)	Tirana, Albania		
	Achenkirch, Austria	0.05	1st Programme
	Admont, Austria	0.05	1st Programme
	Bad Goisern, Austria	0.05	1st Programme
	Bludenz, Austria	0.05	1st Programme
	Gmund, Austria	0.05	1st Programme
	Graz, Austria	25	1st Programme
	Hopfgarten, Austria	0.05	1st Programme
	Längenfeld, Austria	0.05	1st Programme
	Nauders, Austria	0.05	1st Programme
	Neuberg, Austria	0.05	1st Programme
	Oberwölz, Austria	0.05	1st Programme
	Scharnitz, Austria	0.05	1st Programme
	Zell-am-See, Austria	0.2	1st Programme
	Zell-am-Ziller, Austria	0.05	1st Programme
	Angra Do Heroismo, Azores	1	R. Clube de Angra
	Augsburg, Germany (W.)	1	AFN
	Bitburg, Germany (W.)	0.25	AFN
	Craillsheim, Germany (W.)	0.25	AFN
	Hof, Germany (W.)	0.25	AFN
	Tobruk, Libya	10	
	Albacete, Spain	2	R. Popular COPE
	Alicante, Spain	2	R. Popular COPE
	Almeria, Spain	2	R. Popular COPE
	Cordoba (Montilla), Spain	2	R. Popular COPE
	Jerez, Spain	2	R. Popular COPE
	Reus, Spain	2	R. Popular COPE
	San Sebastian, Spain	2	R. Popular COPE
	Santander, Spain	2	R. Popular COPE
	Vigo, Spain	2	R. Popular COPE
	Zamora, Spain	2	R. Popular COPE
	Zaragoza, Spain	2	R. Popular COPE
	Boras, Sweden	0.15	3rd Programme
	Göteborg, Sweden	0.25	3rd Programme
	Halmstad, Sweden	0.25	3rd Programme
	Hudiksvall, Sweden	0.25	3rd Programme
	Karlstad, Sweden	0.25	3rd Programme
	Kiruna, Sweden	0.25	3rd Programme
	Ludvika, Sweden	0.25	3rd Programme

kHz (Metres)	Station and Country	kW	Programme
1394	Lulea, Sweden	0.25	3rd Programme
(215)	Malmberget, Sweden	0.25	3rd Programme
<i>contd</i>	Mariestad, Sweden	0.25	3rd Programme
	Ornskoldvik, Sweden	0.25	3rd Programme
	Pitea, Sweden	0.25	3rd Programme
	Söderhamn, Sweden	0.25	3rd Programme
	Stockholm, Sweden	0.25	3rd Programme
	Sundsvall, Sweden	0.15	3rd Programme
	Uddevalla, Sweden	0.15	3rd Programme
	Vänernsberg, Sweden	0.15	3rd Programme
	Varberg, Sweden	0.15	3rd Programme
	Vastervik, Sweden	0.15	3rd Programme
1403	Bastia, France	4	France Inter/Varietes
(214)	Brest, France	20	France Inter/Varietes
	Clermont-Ferrand, France	20	France Inter/Varietes
	Montpellier, France	10	France Inter/Varietes
	Nice, France	20	France Inter/Varietes
	Pau, France	20	France Inter/Varietes
	Rouen, France	20	France Inter/Varietes
	Komotini, Greece	5	
	<i>Conakry, Guinea</i>	4	
1405	Santiago Compostelo, Spain	2	Radio Galicia SER
(214)			
1412	Helsinki, Finland	2	2nd Programme
(212)	Turku, Finland	0.4	2nd Programme
	Bad Mergentheim, Germany (W.)	3	Sddeutscherundfunk
	Djupivogur, Iceland	0.02	
	Husavik, Iceland	0.02	
	Lon, Iceland	0.02	
	San Gabriel, Portugal		“Voice of the West from Lisbon”
	Bilbao, Spain	2	Radio Bilbao SER
	Burgos, Spain	2	Radio Castilla SER
	Castellon, Spain	2	Radio Castellon SER
	Gijon, Spain	2	Radio Gijon SER
	Granada, Spain	2	Radio Granada SER
	Murcia, Spain	2	Radio Murcia SER
	Pamplona, Spain	2	Radio Requete SER
	Gospic, Yugoslavia	20	
	Maribor, Yugoslavia	20	
	Osijek, Yugoslavia	2	
	Pristina, Yugoslavia	100	
	Split, Yugoslavia	2	
1417	Ciudad Real, Spain	2	R. Ciudad Real SER
(212)			
1418	Oradea, Rumania	6	2nd Programme
(211)			
1421	Algiers, Algeria	40	3rd Programme
(211)	Zyvi, Cyprus	50	BBC Relay
	Tampere, Finland	1	
	Saarbrücken, Germany (W.)	400	Saar Rundfunk

kHz (Metres)	Station and Country	kW	Programme
1421	Sfax, Tunisia	0.05	
(211)	Riga, U.S.S.R.	100	
<i>contd</i>			
1430	Jaen, Spain	2	R. Popular COPE
(210)			
1430	Gjinocaster, Albania	0.04	
(210)	Herstedvester, Denmark	10	2nd Programme
	Skive, Denmark	70	2nd Programme
	Berlin (Köpenick), Germany (E.)	250	R. Berlin International
	Taranto, Italy		
	Benghisa, Malta	1	BFBS
	Caceres, Spain	2	Radio Popular COPE
	Figueras, Spain	2	Radio Popular COPE
	Huelva, Spain	2	Radio Popular COPE
	Leon, Spain	2	Radio Popular COPE
	Lerida, Spain	2	Radio Popular COPE
	Lorca, Spain	2	Radio Popular COPE
	Lugo, Spain	2	Radio Popular COPE
	Malaga, Spain	2	Radio Popular COPE
	Valencia, Spain	2	Radio Popular COPE
	Valladolid, Spain	2	Radio Popular COPE
1433	Pyrgos, Greece	2	
(210)			
1434	<i>Phnom Penh, Cambodia</i>	120	
(209)			
1439	Luxembourg (Marnach), Luxembourg	600	Luxembourg II
(208)	Syktvykar, U.S.S.R.		
1440	<i>Ottawa, Canada</i>	10	
(208)			
1442	Gospic, Yugoslavia	2	
(208)			
1448	Agrigento, Italy	1	2nd Programme
(207)	Alessandria, Italy	0.1	2nd Programme
	Ancona, Italy	6	2nd Programme
	Ascoli, Italy	0.1	2nd Programme
	Belluno, Italy	0.1	2nd Programme
	Benevento, Italy	0.1	2nd Programme
	Biella, Italy	0.1	2nd Programme
	Bressanone, Italy	0.1	2nd Programme
	Brunico, Italy	1	2nd Programme
	Cagliari, Italy	1	2nd Programme
	Caltanissetta, Italy	1	2nd Programme
	Campobasso, Italy	1	2nd Programme
	Catania, Italy	5	2nd Programme
	Catanzaro, Italy	1	2nd Programme
	Como, Italy	1	2nd Programme
	Cortina, Italy	1	2nd Programme
	Cuneo, Italy	0.1	2nd Programme
	Florence, Italy	5	2nd Programme
	Foggia, Italy	1	2nd Programme
	La Spezia, Italy	1	2nd Programme
	Matera, Italy	1	2nd Programme
	Merano, Italy	1	2nd Programme

kHz (Metres)	Station and Country	kW	Programme	
1448 (207) <i>contd</i>	Palermo, Italy	12.5	2nd Programme	
	Perugia, Italy	1	2nd Programme	
	Potenza, Italy	0.1	2nd Programme	
	Salento, Italy	9	2nd Programme	
	Sassari, Italy	5	2nd Programme	
	Salerno, Italy	0.1	2nd Programme	
	Siena, Italy	0.1	2nd Programme	
	Sondrio, Italy	1	2nd Programme	
	Trento, Italy	1	2nd Programme	
	Turin, Italy	25	2nd Programme	
	Udine, Italy	2	2nd Programme	
	Verona, Italy	2	2nd Programme	
	Coimbra, Portugal	1		
	Falkenberg, Sweden	0.15	1st Programme	
	Gavle, Sweden	0.5	1st Programme	
	Hälsingborg, Sweden	1.5	1st Programme	
	Hudiksvall, Sweden	1.5	1st Programme	
	Jönköping, Sweden	2	1st Programme	
	Karlskrona, Sweden	1.5	1st Programme	
	Kristinehamn, Sweden	0.15	1st Programme	
	Säffle, Sweden	0.15	1st Programme	
	Trollhättan, Sweden	2	1st Programme	
	Umeå, Sweden	2	1st Programme	
	Vasteras, Sweden	2	1st Programme	
	Visby, Sweden	0.5	1st Programme	
	1454 (206)	Benghazi, Libya		
	1457 (206)	Amstetten, Austria	0.05	1st Programme
Eisenkappel, Austria		0.20	1st Programme	
Judenburg, Austria		0.10	1st Programme	
Pfunds, Austria		0.05	1st Programme	
Schruns, Austria		0.05	1st Programme	
Spittal-Drau, Austria		0.20	1st Programme	
Wiener, Austria		0.05	1st Programme	
Caramulo, Portugal		1	Programme I	
Craiova, Rumania		20	Programme II	
Bartley, U.K.		10	Radio 4 (West)	
Bexhill, U.K.		2	Radio 4 (West)	
Brighton, U.K.		2	Radio 4 (West)	
Clevedon, U.K.		20	Radio 4 (West)	
Folkestone, U.K.		1	Radio 4 (West)	
Redruth, U.K.	2	Radio 4 (West)		
1460 (205)	<i>Huhehot, China</i>			
	<i>Peking, China</i>			
1466 (205)	Monte Carlo (Fontbonne), Monaco	400	Radio Monte-Carlo	
	Geilo, Norway	0.25		
	Kautokeino, Norway	1		
	Narvik, Norway	1		
	Porsgrunn, Norway	1		
	Sandnessjøhn, Norway	0.25		
	Svalbard (Longyearbyen), Norway	1		

kHz (Metres)	Station and Country	kW	Programme
1466 (205) <i>contd</i>	<i>Simferopol, U.S.S.R.</i>		
1470 (204)	<i>Bhagalpur, India</i>	10	
1475 (203)	Saalfelden, Austria	0.05	1st Programme
	Schwarzach, Austria	0.05	1st Programme
	Vienna, Austria	150	1st Programme
	Windischgarsten, Austria	0.05	1st Programme
	Wörgl, Austria	0.05	1st Programme
	Funchal (1484), Madeira (Portugal)	1	R. da Madeira
	Almeria, Spain	2	Radio Almeria SER
	Cadiz, Spain	2	Radio Cadiz SER
	Cordoba, Spain	2	Radio Cordoba SER
	Elche, Spain	2	Radio Elche SER
	Gandia, Spain	2	Radio Gandia SER
	Logrono, Spain	2	Radio Rioja SER
	Onteniente, Spain	2	Radio Onteniente SER
	Oviedo, Spain	2	Radio Asturias SER
	Palma de Mallorca, Spain	2	Radio Mallorca SER
	Pontevedra, Spain	2	Radio Pontevedra SER
	Reus, Spain	2	Radio Reus SER
	Sabadell, Spain	2	Radio Sabadell SER
	Santander, Spain	2	Radio Santander SER
	Zamora, Spain	2	Radio Zamora SER
1484 (202)	<i>Lamphun*, Thailand</i>	100	Hill Tribes Radio Station
	St. Pölten, Austria	0.2	
	Ostende (Breedene), Belgium	2	Regional Pr. (Dutch)
	Liege, Belgium	5	2nd Programme (French)
	Sofia (Pleven), Bulgaria	1	
	Limassol (Polemihia), Cyprus	25	
	Brno-Jihlava, Czechoslovakia	5	Prague Programme
	Nitra-Rejviz, Czechoslovakia	3	Bratislava + Regional Prog.
	Rimavska Sobota, Czechoslovakia	5	Bratislava Programme
	Usti-Nad-Labem, Czechoslovakia	2	Bratislava Programme
	Aalborg, Denmark	0.25	1st Programme
	Copenhagen, Denmark	2	1st Programme
	Tonder, Denmark	0.25	1st Programme
	Pietarssari, Finland	1	
	Pori, Finland	1	
	Caen, France	0.05	France-Inter/Jeunesse
	Dijon, France	1	France-Inter/Jeunesse
	Grenoble, France	1	France-Inter/Jeunesse
	Montpellier, France	1	France-Inter/Jeunesse
	Perpignan, France	1	France-Inter/Jeunesse
	Poitiers, France	1	France-Inter/Jeunesse
	Adelsheim, Germany (W.)	0.2	Suddeutscher Rundfunk
	Berlin, Germany (W.)	5	Sender Freies Berlin
	Bopfingen, Germany (W.)	0.2	Suddeutscher Rundfunk
	Heidenheim, Germany (W.)	0.2	Suddeutscher Rundfunk
	Wertheim, Germany (W.)	0.2	Suddeutscher Rundfunk

kHz (Metres)	Station and Country	kW	Programme
1484	Fort Wellington, Gibraltar	1	Radio Gibraltar
(202)	Volos, Greece	1	
<i>contd</i>	Keflavik, Iceland	0.25	VoA
	Olafsfjörður, Iceland	0.02	
	Raufarhöfn, Iceland	0.02	
	Siglufsjörður, Iceland	0.02	
	Skulagardur, Iceland	0.02	
	Aquila, Italy	1	2nd Programme
	Arezzo, Italy	0.1	2nd Programme
	Avellino, Italy	1	2nd Programme
	Bolzano, Italy	2	2nd Programme
	Brindisi, Italy	0.1	2nd Programme
	Cozenza, Italy	1	2nd Programme
	Gorizia, Italy	0.1	2nd Programme
	Lecce, Italy	1	2nd Programme
	Nuoru, Italy	1	2nd Programme
	Savona, Italy	0.1	2nd Programme
	Teramo, Italy	0.1	2nd Programme
	Terni, Italy	0.1	2nd Programme
	Vicenza, Italy	0.1	2nd Programme
	El Adem (Benghazi), Libya	10/1	BFBS
	Casablanca, Morocco	0.25	3rd Programme
	Kenitra, Morocco	0.25	AFN
	Bronnoysund, Norway	0.25	
	Glomfjord, Norway	0.25	
	Karasjok, Norway	1	
	Mosjoen, Norway	0.25	
	Rjukan, Norway	0.25	
	Jelenia Gora, Poland	1	
	Kielce, Poland	2	
	Lodz, Poland	8	
	Olsztyn, Poland	1	
	Slupsk, Poland	2	
	Stettinek, Poland	2	
	Zakopane, Poland	2	
	Baia Mare, Rumania	2	
	Brasov, Rumania	2	
	Mures, Rumania	2	
	Resita, Rumania	2	
	Sibiu, Rumania	2	
	Valladolid, Spain	2	La Voz de Valladolid
	Barrow, U.K.	2	Radio 4 (North)
	Bournemouth, U.K.	2	Radio 1
	Dundee, U.K.	2	Radio 2
	Edinburgh, U.K.	2	Radio 2
	Glasgow, U.K.	2	Radio 2
	Ramsgate, U.K.	2	Radio 4 (London)
	Redmoss, U.K.	2	Radio 2
	Riga, U.S.S.R.	5	Riga III
	Belgrade, Yugoslavia	5	2nd Programme
	Berovo, Yugoslavia	0.05	2nd Programme
	Bihac, Yugoslavia	0.05	2nd Programme

kHz (Metres)	Station and Country	kW	Programme
1484	Bitolja, Yugoslavia	2	2nd Programme
(202)	Bovec, Yugoslavia		2nd Programme
<i>contd</i>	Brcko, Yugoslavia	0.1	2nd Programme
	Buje, Yugoslavia	0.05	2nd Programme
	Cacak, Yugoslavia	0.1	2nd Programme
	Celje, Yugoslavia	2	2nd Programme
	Djakovo, Yugoslavia	0.05	2nd Programme
	Djevdjelya, Yugoslavia	0.05	2nd Programme
	Gostivar, Yugoslavia	0.05	2nd Programme
	Gevgelija, Yugoslavia	0.05	2nd Programme
	Jajce, Yugoslavia	0.2	2nd Programme
	Kavadarei, Yugoslavia	0.05	2nd Programme
	Kicevo, Yugoslavia	0.15	2nd Programme
	Knin, Yugoslavia	0.02	2nd Programme
	Kocani, Yugoslavia	0.15	2nd Programme
	Krizevci, Yugoslavia	0.05	2nd Programme
	Krnjaca, Yugoslavia	2	2nd Programme
	Ljubljana, Yugoslavia	0.7	2nd Programme
	Modrica, Yugoslavia	0.05	2nd Programme
	Novi Sad, Yugoslavia	2	2nd Programme
	Ohrid, Yugoslavia	0.02	2nd Programme
	Porec, Yugoslavia	0.05	2nd Programme
	Prilep, Yugoslavia	0.03	2nd Programme
	Pula-Veli, Yugoslavia	2	2nd Programme
	Radovis, Yugoslavia	0.05	2nd Programme
	Ragusa, Yugoslavia	2	2nd Programme
	Resen, Yugoslavia	0.15	2nd Programme
	Struga, Yugoslavia	0.02	2nd Programme
	Skopje, Yugoslavia	0.4	2nd Programme
	Split, Yugoslavia	2	2nd Programme
	Stip, Yugoslavia	0.2	2nd Programme
	Strumica, Yugoslavia	0.05	2nd Programme
	Svetozarevo, Yugoslavia	1.5	2nd Programme
	Tito Veles, Yugoslavia	0.03	2nd Programme
	Tolmin, Yugoslavia	0.05	2nd Programme
	Tuzla, Yugoslavia	2	2nd Programme
	Varazin, Yugoslavia	0.05	2nd Programme
	Vukovar, Yugoslavia	0.1	2nd Programme
	Zagreb, Yugoslavia	2	2nd Programme
1489	Heilissandur, Iceland		
(201)			
1490	Sljeme*, Yugoslavia		
(201)			
1493	Kitzbühel, Austria	0.05	1st Programme
(201)	Landeck, Austria	0.05	1st Programme
	Reutte, Austria	0.05	1st Programme
	Unzmarkt, Austria	0.05	1st Programme
	Ajaccio, France	8	France-Inter/Jeunesse
	Bayonne, France	4	France-Inter/Jeunesse
	Besancon, France	1	France Culture
	Brest, France	0.05	France-Inter/Jeunesse
	Marseilles, France	1	France-Inter/Jeunesse

kHz (Metres)	Station and Country	kW	Programme
1493	Nantes, France	0.05	France-Inter/Jeunesse
(201)	St. Brieuc, France	0.05	France Culture
<i>contd</i>	Strasbourg, France	1	France-Inter/Jeunesse
	Tours, France	0.05	France-Inter/Jeunesse
	Rhodes, Greece	5	1st/Regional Programme
	Gomel, U.S.S.R.		
	Leningrad, U.S.S.R.	50	
	Ludbreg, Yugoslavia	0.05	
	Murska Sobota, Yugoslavia	2	
1495	Guarda, Portugal	0.02	R. Altitude
(201)			
1500	Lages Terceira, Azores	0.25	AFRTS
(200)	Segovia, Spain	2	Radio Segovia SER
1502	Nicosia (Haraclis), Cyprus	7.5	BFBS
(200)	Munster, Germany (W.)	0.8	Westdeutscher Rundfunk
	Garmisch, Germany (W.)	0.25	AFN
	Giessen, Germany (W.)	0.25	AFN
	Hohenfels, Germany (W.)	0.25	AFN
	Kassel, Germany (W.)	0.05	AFN
	Wildflecken, Germany (W.)	0.05	AFN
	Warsaw, Poland	300	3rd Programme Foreign
	Bilbao, Spain	2	R. Popular COPE
	Burgos, Spain	2	R. Popular COPE
	Murcia, Spain	2	R. Popular COPE
	Pamplona, Spain	2	R. Popular COPE
	Salamanca, Spain	2	R. Popular COPE
	Seville, Spain	2	R. Popular COPE
	Sloven-Gradec, Yugoslavia	0.05	
1504	Castellon (La Plana), Spain	2	R. Popular COPE
(200)			
1505	Orense, Spain	2	R. Popular COPE
(199)			
1510	Dalvik, Iceland	0.02	
(199)	Kopsaker, Iceland	0.02	
	Rikisutvarpid, Iceland	0.02	
	Thorshofn, Iceland	0.02	
1511	Brussels III, Belgium	20	Regional Prog. (Dutch)
(199)	Berlin, Germany (E.)	250	R. Berlin International
	Canea, Greece	5	1st/Regional Programme
	Patras, Greece	0.15	1st/Regional Programme
	Gerona, Spain	2	Radio Gerona SER
	Tallinn, U.S.S.R.		
	Ptuj, Yugoslavia	0.05	
1520	Ceske-Budejovice, Czechoslovakia	30	
(197)	Karlovy-Vary, Czechoslovakia	30	
	Liberec, Czechoslovakia	3	
	Ostrava-Svinov, Czechoslovakia	30	
	Prague, Czechoslovakia	100	
	Albacete, Spain	2	Radio Albacete SER
	Alicante, Spain	2	Radio Alicante SER
	Badalona, Spain	2	Radio Badalona SER
	Jaen, Spain	2	Radio Jaen SER

kHz (Metres)	Station and Country	kW	Programme
1520 (197)	Jerez Fronterra, Spain	2	Radio Jerez SER
	Lerida, Spain	2	Radio Lerida SER
<i>contd</i>	Lugo, Spain	2	Radio Lugo SER
	Valladolid, Spain	2	Radio Valladolid SER
	Vigo, Spain	2	Radio Vigo SER
	<i>Buffalo, U.S.A.</i>	50	
	Petrinja, Yugoslavia	0.05	
1525 (197)	<i>Peking, China</i>		
	Moscow, U.S.S.R.		
1529 (196)	Kerkyra (Corfu), Greece	50	
	Funchal, Madeira Is.		
	Porjus, Sweden	0.075	1st Programme
	Vatican State, Vatican City	250	
1530 (196)	<i>Cincinnati, U.S.A.</i>	50	
1538 (195)	<i>Dakar, Senegal</i>	10	
	<i>Djibouti*, Fr. Terr. AFARS/ISSAS</i> <i>(Somaliland)</i>	4	
	Mainflingen, Germany (W.)	700	Deutschlandfunk
1540 (195)	Bitolja, Yugoslavia		
1546 (194)	Abtenau, Austria	0.05	1st Programme
	Bad-Aussee, Austria	0.05	1st Programme
	Grosarl, Austria	0.05	1st Programme
	Scheifling, Austria	0.05	1st Programme
	Sillian, Austria	0.05	1st Programme
	Seelow, Germany (E.)	5	R. DDR 1
	Brighton, U.K.	1	Radio 3
	Divis (Belfast), U.K.	0.25	Radio 3
	Exeter, U.K.	0.25	Radio 3
	Fareham, U.K.	1	Radio 3
	Leeds, U.K.	1	Radio 3
	Liverpool, U.K.	1	Radio 3
	Plymouth, U.K.	1	Radio 3
	Preston, U.K.	1	Radio 3
	Redruth, U.K.	1	Radio 3
	Stockton-on-Tees, U.K.	0.25	Radio 3
	Swansea, U.K.	1	Radio 3
	Vinnitsa, U.S.S.R.	50	
1554 (193)	Nice I, France	150/ 250	France Jeunesse
	Vilnius, U.S.S.R.		
1558 (192)	Amalias, Greece	1.25	
	<i>Siliguri, India</i>	20	
1562 (192)	Kötschach, Austria	0.05	1st Programme
	Kufstein, Austria	0.05	1st Programme
	Obdach, Austria	0.05	1st Programme
	Covilha, Portugal	1	
	"Radio Veronica", S/Mer	10	
	Boras, Sweden	2	1st Programme
	Eskilstuna, Sweden	0.5	1st Programme
	Halmstad, Sweden	2	1st Programme
	Kalmar, Sweden	2	1st Programme

kHz (Metres)	Station and Country	kW	Programme
1562	Karlstad, Sweden	1.5	1st Programme
(192)	Kiruna, Sweden	0.5	1st Programme
<i>contd</i>	Malmö, Sweden	2	1st Programme
	Norrköping, Sweden	1.5	1st Programme
	Orebro, Sweden	1.5	1st Programme
	Ornskoldsvik, Sweden	1.5	1st Programme
	Söderhamn, Sweden	0.06	1st Programme
	Uddevalla, Sweden	0.5	1st Programme
	Uppsala, Sweden	2	1st Programme
	Varberg, Sweden	2	1st Programme
	Basle, Switzerland	0.5	German Lang. Prog.
	Beromünster, Switzerland	160	German Lang. Prog.
	Leningrad, U.S.S.R.		
	Brezice, Yugoslavia	0.05	
1570	Laghouat, Algeria	4	
(191)	Santa Maria, Azores	1	Asas do Atlantico
	Bernburg, Germany (E.)	20	R. DDR 1
	Kiel, Germany (W.)	5	Nordeutscher Rundfunk
	Osnabrück, Germany (W.)	5	Nordeutscher Rundfunk
	Iraklion, Greece	0.25	AFRTS
	Alicante, Spain	2	La Voz de Alicante REM
	Cordoba, Spain	2	La Voz de Andalucia REM
	Gerona, Spain	2	La Voz de Gerona REM
	Santander, Spain	2	La Voz de Cantabria REM
	Tortosa, Spain	2	Radio Tortosa
	Valencia, Spain	2	La Voz de Levante REM
	Leningrad, U.S.S.R.	10	
	Vrbovsko, Yugoslavia	0.05	
1572	Socuellamos, Spain	2	La Voz de La Mancha REM
(191)	Soria, Spain	2	
1578	Ancona, Italy	2	1st Programme
(190)	Aquila, Italy	1	1st Programme
	Brindisi, Italy	1	1st Programme
	Campobasso, Italy	1	1st Programme
	Carrara, Italy	1	1st Programme
	Catanzaro, Italy	1	1st Programme
	Cozenza, Italy	1	1st Programme
	Foggia, Italy	1	1st Programme
	Genoa, Italy	50	1st Programme
	Gorizia, Italy	1	1st Programme
	La Spezia, Italy	1	1st Programme
	Lecca, Italy	1	1st Programme
	Matera, Italy	1	1st Programme
	Nuoro, Italy	1	1st Programme
	Perugia, Italy	1	1st Programme
	Potenza, Italy	1	1st Programme
	Reggio Calabria, Italy	2	1st Programme
	Sassari, Italy	2	1st Programme
	Taranto, Italy	1	1st Programme
	Terni, Italy	1	1st Programme
	Fredrikstad, Norway	10	
	Nordkapp, Norway	1.3	

kHz (Metres)	Station and Country	kW	Programme
1578 (190) <i>cont'd</i>	Porto, Portugal	10	Em. do Norte Reunidos
1580 (190)	<i>Bangkok, Thailand</i>	1000	VoA
1581 (190)	Tarrega, Spain	2	La Voz de Lerida SIN
1586 (189)	Langenburg, Germany (W.)	400	Westdeutscher Rundfunk
1594 (189)	Tartu, U.S.S.R.	15	
	Bejaia, Algeria	0.6	
	Braunau, Austria	0.05	
	Feldkirchen, Austria	0.05	
	Zwettl, Austria	0.05	
	Kortrijk (Kuurne), Belgium	2	National Prog. (Dutch)
	Ostrava-Olomouc, Czechoslovakia	20	Bratislava Regional Prog.
	Vysoke-Tatry, Czechoslovakia	2	Bratislava Regional Prog.
	Zilina, Czechoslovakia	3	Bratislava Regional Prog.
	Esbjerg, Denmark	2	1st Programme
	Angers, France	0.05	France-Inter/Jeunesse
	Nimes, France	1	France-Inter/Jeunesse
	St. Quentin, France	0.05	France-Inter/Jeunesse
	Lorient, France	0.05	France-Inter/Jeunesse
	Toulon, France	1	France-Inter/Jeunesse
	Athens, Greece	1	AFRTS
	Balatonzabad, Hungary	15	Petoeffi Radio 1
	Magyarovar, Hungary	0.04	Petoeffi Radio 1
	Miscolcz, Hungary	15	Petoeffi Radio 1
	Bologna, Italy	1	3rd Programme
	Bolzano, Italy	2	3rd Programme
	Bressanone, Italy	1	3rd Programme
	Brunico, Italy	1	3rd Programme
	Cagliari, Italy	1	3rd Programme
	Leghorn, Italy	1	3rd Programme
	Merono, Italy	1	3rd Programme
	Trento, Italy	1	3rd Programme
	Trieste, Italy	2	3rd Programme
	Verona, Italy	1	3rd Programme
	Tripoli (Benghazi), Libya	5	
	Wheelus Field, Libya	1	AFRTS
	Benguerir*, Morocco		
	Marrakech, Morocco	1	
	Nauaceur*, Morocco		
	Rabat*, Morocco		
	Sidi Slimane*, Morocco		
	Hengelo, Netherlands	2.5	
	Hoogezand, Netherlands	2.5	
	Hulsberg, Netherlands	2.5	
	Gyzysko, Poland	1	
	Koszalin, Poland	1	
	Opole, Poland	2	
	Lisbon, Portugal	10	Em. Ass. de Lisboa
	Boden, Sweden	0.2	3rd Programme

kHz (Metres)	Station and Country	kW	Programme
1594	Jönköping, Sweden	0.2	3rd Programme
(189)	Kristinehamn, Sweden	0.2	3rd Programme
<i>contd</i>	Porjus, Sweden	0.2	3rd Programme
	Säffle, Sweden	0.2	3rd Programme
	Trollhättan, Sweden	0.2	3rd Programme
	Umeå, Sweden	0.2	3rd Programme
	Bournemouth, U.K.	0.25	Radio 3
	Dundee, U.K.	0.25	Radio 3
	Foxdale (Isle of Man), U.K.	1	Radio Manx
	Buje, Yugoslavia	0.05	
	Jesenice, Yugoslavia	0.05	
	Karlovak, Yugoslavia	0.05	
	Krapina-Zabok, Yugoslavia	0.05	
	Ogulin, Yugoslavia	0.05	
	Rovij, Yugoslavia	0.05	
	Sombor, Yugoslavia	0.05	
	Trbovlje, Yugoslavia	0.05	
	Varazdin, Yugoslavia	0.05	
	Vinkovici, Yugoslavia	0.05	
1602	Munich, Germany (W.)	185	Bayerischer Rundfunk
(187)		370	

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GEOGRAPHICAL LIST OF LONG- AND MEDIUM-
WAVE EUROPEAN STATIONS

	kHz		kHz
ALBANIA			
Gjinocaster	1430	Freisach	1313
Korce	1349	Gloggnitz	674
Tirana	1088	Gmünd	1394
	1214	Gmünd-Karten	1124
	1320	Graz (Dobl)	1394
	1358	Greifenburg	566
	1394	Grossarl	1546
		Hallstadt	1313
ALGERIA		Haslach-Mühl	1313
Ain Beida	529	Hermagor	773
Algiers	890	Hofgastein	1124
	980	Hopfgarten	1394
	1421	Imst	1124
Batna	1016	Judenburg	1124
Bejaia	1594		1457
Bouira	692	Kindberg	1313
Constantine	1142	Kitzbühel	1493
	1304	Klagenfurt	728
Laghouat	1570	Knittelfeld	1313
Michelet	692	Kötschach	1313
Oran	548	Krems	1124
	1304	Kufstein	1124
Setif	845	Landeck	1493
Souk Ahras	1079	Längenfeld	1394
Tlemcen	746	Lauterach	629
Touggourt	557	Lend	773
		Leoben	773
ANDORRA		Lienz	629
Andorra	701	Liesen	520
	818		1313
		Linz	890
AUSTRIA		Maria Pfarr	1313
(Regional Prog.)		Mariazell	773
Abtenau	1546	Matrei	674
Achenkirch	1394	Mayrhofen	1124
Admont	1394	Mittersill	773
Aigen	674	Mühlbach/Hockönig	566
Aldrans	629	Murau	1313
Amstetten	1457	Mürzzuschlag	1124
Bad-Ausee	1546	Nauders	1394
Bad-Goisern	1394	Neuberg/Mürz	1394
Bad-Ischl	566	Neukirchen	566
Bad-St. Leonard	773		1052
Bischofshofen	674	Neumarkt	674
Bleiburg	674	Obdach	1124
Bludenz	1394	Oberdrauburg	773
Braunau	1594	Obervellach	1124
Bruck-Muer	1124	Oberwölz	1394
Ehrwald	1313	Oetz	1313
Eisenerz	1124	Pfunds	1457
Eisenkappel	1457	Prutz	773
Feistritz-Paternion	566	Radentheim	674
Feldkirchen	1594	Radstadt	566

Austria—cont.	kHz		kHz
Rauris	1313	Lauterach	1025
Reutte	1493	Lienz	520
Ried	674	Maria Pfarr	1025
Rottenmann	1124	Mayrhofen	584
Saalfelden	1457	Mittersill	1142
St. Anton	773	Mulbach	1025
St. Gallen	773	Murau	520
St. Gallenkirch	773	Nauders	1025
St. Lambrecht	773	Neuberg	1142
St. Michael-im-Langau	773	Neukirchen	962
St. Pölten	1484	Neumarkt	962
Salzburg	773	Obdach	1562
Scharnitz	1394	Obervellach	962
Scheifling	1546	Oberwölz	1052
Schrunns	1457	Oetz	1025
Schwarzach	1457	Pfunds	1052
Sillian	1546	Prutz	962
Spittal-Drau	1457	Rauris	962
Tamsweg	1124	Reutte	1142
Trieben	1313	Saalfelden	1142
Unzmarkt	1493	St. Anton	962
Villach	1124	St. Gallen	1142
Völkermarkt	1313	St. Gallenkirch	1142
Vienna	1475	St. Lambrecht	1088
Windischgarsten	1475	Salzburg	584
Wolfsburg	1313	Scharnitz	1025
Wörgl	1475	Scheifling	1142
Zell-am-See	1394	Schrunns	1088
Zell-am-Ziller	1394	Spittal-Drau	1052
Zwettl	1594	Unzmarkt	944
		Vienna	584
(Prog. One)		Zell-am-Ziller	1025
Abtenau	1142	Zwettl	1142
Achenkirch	1025		
Aldrans	520	AZORES	
Bad-Ausee	1142	Angra do Heroismo	1394
Bad-Goisern	1052	Lages-Terceira	650
Bludenz	520		1500
Dobl	1025	Ponta Delgada	836
Ehrwald	962	Santa Maria	1570
Eisenerz	962		
Eisenkappel	1052	BELGIUM	
Gmünd	962	Breedene	1484
	1052	Brussels	620
Grossarl	1088		926
Hallstadt	962	Houdeng	1124
Hermagor	1025	Liege	1484
Hopfgarten	1052	Brussels-Veltem	1511
Judenburg	1151	Kortrijk-Kuurne	1594
Kitzbühel	1025		
Klagenfurt	584	BULGARIA	
Kötschach	1562	Blagaevgrad	863
Kronstorf	1025	Kandzali	1160
Kufstein	1562	Kolarovgrad	1160
Landeck	1142	Plovdiv	746
Längenfeld	1052	Sofia	566

Bulgaria—cont.	kHz		kHz
Sofia	593	Kalundborg	245
	773		1061
	827	Skive	1430
	962	Thorshavn (Faroe Is.)	584
	1484	Tonder	1484
Stara Zagora	1223		
Varna	1124	EIRE	
		Athlone	566
CYPRUS		Cork	1250
Akvotiri (B. F. B. S.)	1403	Dublin	1250
Coral Bay - Paphos	917		
Limassol (B. F. B. S.)	638	FINLAND	
	719	Helsinki	557
	890		1412
Nicosia	602	Joensuu	520
Nicosia-Athalassa	692	Kuopio	755
Nicosia-Harachs (B. F. B. S.)	1501	Lahti	254
Polemihia-Limassol	1484	Oulu	433
Zyvi (B. F. B. S.)	1421	Pietarsaari	1484
		Pori	1484
		Tampere	1421
		Turku	962
CZECHOSLOVAKIA			1412
Banska Bystrica	701	Vaasa	1241
Bratislava	701	Ylivieska	836
	1097		
	1232		
Brno	953	FRANCE	
	1484	(France-Culture)	
Ceske-Budejovice	1520	Bayonne	539
Hradec-Kralove	1232	Besançon	1493
Karlovy-Vary	1520	Bordeaux	1349
Kosice	701	Brest	1241
	1232	Grenoble	1349
Liberec	1520	Lille	1241
Nitra	1484	Limoges	1349
Orava	1232	Lyons	1241
Ostrava	1520	Marseilles	1241
	1594	Nancy	1241
Plzen-Prestice	953	Nantes	1349
Prague	638	Nice	1241
	701	Paris	584
	1286		863
	1520	Rennes	1241
Runavaska-Sobota	1484	St. Brieuc	1493
	1286	Strasbourg	1277
Topolna	272	Toulouse	1349
Usti-Nad-Labem	701		
	1484	(Inter/Varietes)	
Vsoke-Tatry	1594	Ajaccio	1493
Zilina	1594	Angers	1594
		Bastia	1403
DENMARK		Bayonne	1493
Aalborg	1484	Bordeaux	1205
Esbjerg	1594	Brest	1403
Copenhagen	1484	Caen	1484
Herstedvester	1430	Clermont-Ferrand	1403

France—cont.	kHz		kHz
Dijon	1484	(D. D. R. 1.)	
Grenoble	1484	Berlin	881
Lille	1376	Bernburg	1570
Limoges	791	Cottbus	746
Lorient	1594	Dresden	1043
Lyons-Traunoyes	602	Erfurt	629
Marseilles	674	Greifswald	557
Montpellier	1403	Leipzig	575
Nancy	836	Meiningen	683
Nantes	1493	Seelow	1546
Nice	1403	Suhl	1052
Paris	1070	Schwerin	529
Pau	1403		
Poitiers	1484		
Rennes	710	(D. F. S.)	
Rouen	1403	Burg	908
St. Quentin	1594		
Strasbourg	1160	(S. P.)	
Toulouse	944	Berlin	263
Tours	1493	Burg	935
		Leipzig	1322
(Inter/Jeunesse)			
Allouis	164		
Brest	1493	GERMANY (WEST)	
Marseilles	1493	(A. F. N.)	
Montpellier	1484	Ansbach	1034
Nice	1554	Augsburg	1394
Nimes	1594	Bad-Kissingen	1034
Perpignan	1484	Bamberg	1304
Strasbourg	1493	Berchtesgaden	1304
Toulouse	1594	Berlin	935
		Bitburg	1394
(Special)		Bremerhaven	1124
Paris	962	Crailsheim	1394
		Frankfurt	872
		Fulda	1304
GERMANY (EAST)		Garmisch	1502
(R. B. I.)		Giessen	1502
Berlin	1430	Göppingen	1142
	1511	Grafenwohr	611
		Heidelberg	1304
(B. R.)		Hersfeld	1142
Berlin	611	Hof	1394
Karl-Marx-Stadt	602	Hohenfels	1502
Plauen	1079	Kaiserslautern	611
Potsdam	656	Karlsruhe	1034
Reichenbach	917	Kassel	1502
		Munich	1106
(B. W.)		Nürnberg	611
Berlin	1358	Regensburg	1304
		Schweinfurt	1142
(D. S.)		Stuttgart	1142
Burg	782	Ulm	1142
Oranienburg	185	Wertheim	1304
Schwerin	728	Wildflecken	1502
Suhl	692	Würzburg	1142

Germany (West)—cont.	kHz		kHz
(B. B. C.)		Berlin	989
Berlin	809	Hof-Saale	683
			737
(E. 1)			
Saarlouis	180		
		(S. D. R.)	
(R. F. E.)		Adelsheim-Baden	1484
Munich	719	Bad Mergentheim	1412
		Bopfingen	1484
(V. o. A.)		Buchen	998
Munich	173	Heidelberg	998
	1196	Heidenheim	1484
		Heilbronn	1169
(B. Y. R.)		Stuttgart	575
Bayreuth	520	Ulm	1169
Munich	1602	Wertheim	1484
Nürnberg	800		
Passau	520	(S. F. B.)	
Würzburg	520	Berlin	566
			1484
(D. F.)		(S. R.)	
Bad Dürkheim	548	Saarbrücken	1421
Braunschweig	548		
	755	(S. W. F.)	
Donebach	151	Baden-Baden	827
Mainflingen	1538	Freiburg	827
Neumünster	1268	Kaiserslautern	827
Ravensburg	755	Koblenz	827
		Rohrdorf	665
		Trier	827
(H. R.)			
Frankfurt	593		
Hoher-Meissner	593	(W. D. R.)	
		Aachen	701
		Bonn	971
(N. D. R.)		Herford	701
Aurich	701	Kleve	971
Flensburg	701	Langenberg	1586
Göttingen	971	Münster	1502
Hamburg	971	Siegen	701
Hanover	520		
	971	GIBRALTAR	
Kiel	1570	Fort Wellington	1484
Lingen	701		
Oldenburg	971		
Osnabrück	1570	GREECE	
		Amalias	1564
		Athens	665
			728
(R. B.)			
Bremen	1079		1142
Bremerhaven	1358		1320
			1385
			1580
(R. I. A. S.)		(A. F. N.)	
Berlin	683	Chania	1511
	854	Crestlas	1320

Greece—cont.	kHz		kHz
Florina	1313	Bet Hilel	881
Iraklion	1570	Eilat	1358
Kavalla	1347	Haifa	1304
Kerkyra	1007	Jerusalem	575
Komotini	1403	(Jordan)	710
Larissa	944		1169
Mesolongion	1070		1390
Orestias	1079	Safad	697
Patrai	1511		845
Pyrgos	1061	Tel Aviv	656
	1436		737
Rhodes (V. o. A.)	1259		1025
	1493		1286
Thessaloniki (V. o. A.)	791		
	1043		
	1178		
Volos	1484	ITALY	
		(1st Prog.)	
HUNGARY		Ancona	1578
Balatonszabadi	1250	Aosta	1331
	1594	Aquila	1578
Budapest	539	Bari	1331
	872	Bologna	566
	1340	Bolzano	656
Gyor	1349	Brindisi	1578
Magyarovar	1594	Cagliari	1061
Miscolc	1594	Caltanissetta	566
Nyiregyhaza	1340	Campobasso	1578
Pecs	1340	Carrara	1578
Szolnok	1187	Catania	1061
	1349	Catanzaro	1578
		Cosenza	1578
ICELAND		Florence	656
Akureyri	737	Foggia	1578
Alftafjörður	1133	Genoa	1578
	1510	Gorizia	1578
Dalvik	1510	La Spezia	1578
Djupivogur	1412	Lecce	1578
Eidar	209	Leghorn	1061
Höfn	665	Matera	1578
Husavik	1412	Milan	899
Hellissandur	1489	Naples	656
Keflavik (A. F. N.)	1484	Nuoro	1578
Kopasker	1510	Palermo	1331
Lön	1412	Perugia	1578
Olafsfjörður	1484	Pescara	1331
Raufarhöfn	1484	Potenza	1578
Reykjavik	209	Reggio Calabria	1578
Ríkisutvarpid	1510	Rome	1331
Siglufjörður	1484	Salento	566
Skulagardur	1484	Sassari	1578
Thorshöfn	1510	Taranto	1578
		Terni	1578
ISRAEL		Trento	1331
Akko	1205	Trieste	818
Beersheba	1367	Turin	656

Italy—cont.	kHz		kHz
Udine	1061	Siena	1448
Venice	656	Sondrio	1448
Verona	1061	Taranto	1448
		Teramo	1484
(2nd Prog.)		Terni	1484
Agrigento	1448	Trento	1448
Alessandria	1448	Trieste	1115
Ancona	1448	Turin	1448
Aosta	1115	Udine	1448
Aquila	1484	Venice	1034
Arezzo	1484	Verona	1448
Ascoli Picenzo	1448	Vicenza	1484
Avellino	1484		
Bari	1115	(3rd Prog.)	
Belluno	1448	Bari	1367
Benevento	1448	Bologna	1594
Biella	1448	Bolzano	1594
Bologna	1115	Bressanone	1594
Bolzano	1484	Brunico	1594
Bressanone	1448	Cagliari	1594
Brindisi	1484	Catania	1367
Brunico	1448	Florence	1367
Cagliari	1448	Genoa	1367
Caltanissetta	1034	Leghorn	1594
Campobasso	1448	Merano	1594
Catania	1448	Messina	1367
Catanzaro	1448	Milan	1367
Como	1448	Naples	1367
Cortina D'Ampezzo	1448	Palermo	1367
Cosenza	1484	Pisa	1367
Cuneo	1448	Rome	1367
Florence	1448	Sassari	1367
Foggia	1448	Trento	1367
Genoa	1034	Trieste	1594
Gorizia	1484	Turin	1367
La Spezia	1448	Venice	1331
Lecce	1448	Verona	1594
Matera	1448		
Merano	1448	(Slovak)	
Messina	1115	Trieste	980
Milan	1034		
Naples	1034	JORDAN	
Nuoro	1484	Amman	800
Palermo	1448	Jerusalem (Israel)	677
Perugia	1448		
Pesaro	1313	LEBANON	
Pescara	1034	Beirut	836
Pisa	1115	Beirut	989
Potenza	1448		
Rimini	1223	LIBYA	
Rome	845	Benghazi	1454
Salento	1448		1484
Salerno	1448	Beyda	1124
San Remo	1034	El Adem	1484
Sassari	1448	El Gawarsha	674
Savona	1484	Tripoli	1052

Libya—cont.	kHz		kHz
Tripoli	1594	NETHERLANDS	
(A. F. N.)	990	Hilversum	746
(A. F. N.)	1594		1007
Tripoli/Tobruk (B. F. B. S.)	1394		1250
LUXEMBOURG		Bloemendaal	1223
Luxembourg	233	Hengelo	1594
	1439	Hoogezand	1594
		Hulsburg	1594
MADEIRA ISLAND			
Funchal	1331	NORWAY	
	1475	Alta	1115
	1529	Arendaal	1115
MALTA		Bergen I	890
Dalimara Point	1546	Bodö	674
Benghisa (B. F. B. S.)	1428	Bø Vesteraalen	1115
Radio Malta	1214	Brønnbysund	1484
		Fredrikstad	1578
		Geilo	1466
MONACO		Glomfjord	1484
Monte Carlo	218	Karasjok	1484
	1466	Kautokeino	1466
		Kristiansand	890
		Lista	1115
MOROCCO		Mo-I-Rana	1115
Azilal	209	Mosjøen	1484
Agadir	935	Namsos	1115
	1196	Narvik	1466
Ben Mellal	1349	Nordkapp	1115
Casablanca	818	Notodden	1578
	1187	Odda	1115
	1484	Oslo	218
Kenitra (A. F. N.)	1484	Porsgrunn	1466
Marrakech	971	Röros	520
	1152	Rjukan	1484
	1594	Sandnessjoen	1466
Ouj	593	Stavanger	1313
Oudja	827	Svalbard	1466
Rabat	1025	Tromsö	155
	1295	Tröndelag	890
Safi	1025	Vigra	629
	1322	Vadso (Finnmark)	701
Sebaa-Aioun	611		
	701		
	1043		
Tangiers	1016	POLAND	
	1115	Bialystok	1367
	1232	Gdansk	1304
Tetuan	917	Gizycko	1594
	1059	Jelenia Gora	1484
		Katowice	1079
		Kielce	1484
(A. F. N.)		Koszalin	1594
Ben Guerir	1594	Krakow	1205
Nouaceur	1594	Lodz	1367
Rabat	1594		1484
Sidi Slimane	1594	Lublin	1367

	kHz		kHz
Poland—cont.			
Olsztyn	1484	Sibiu	1484
Opole	1594	Timisoara	629
Poznan	737		755
Rzeszow	1205		
Slupsk	1484	SPAIN	
Stettin	1304	Albacete	1193
Stettinek	1484		1394
Warsaw	227		1520
	818	Alcoy	1106
	1502	Alicante	1394
Wroclaw	1259		1520
Zakopane	1484		1570
Zielona Gora	1259	Almeria	1394
			1475
PORTUGAL		Anteguerra	1090
Caramulo	1457	Aranda de Duero	1133
Coimbra	1448	Astorga	1268
Covilha	1562	Avila	1136
Elvas	1331	Aviles	1502
Faro	557	Badajoz	1025
Guarda	557		1106
	1495		1277
Lisbon	665	Badalona	1520
	755	Barcelona	737
	1286		827
	1594		1025
Miramar	782		1124
Portalegre	1196		1178
Porto	719	Benevente	1133
	1061	Bilbao	1133
	1169		1412
	1367		1503
	1578	Burgos	1412
Porto Alto	1034		1502
Regua	800	Cabra	1090
Santarem	1322	Caceres	1133
Sao Gabriel	1412		1430
Vila Real Tras-os-Montes	620	Cadiz	1133
Viseu	692		1475
		Calaborra	1133
		Castellon	1133
RUMANIA			1412
Baia Mare	1484		1504
Brasov	155	Ceuta	1106
	1484	Ciudad	1154
Bucharest	557		1277
	854		1417
	1052	Cordoba	1394
Cluj	1151		1475
Constanza	1313		1570
Craiova	1313	Cuenca	1187
	1457	Elche	1475
Miercurea Ciuc	908	El Aaiun	656
Mures	1484	Figueras	1430
Oradea	1418	Gandia	1475
Resita	1484	Gerona	1511

Spain—cont.	kHz		kHz
Gerona	1570	Palma de Mallorca	1475
Gijon	1412	Pamplona	1413
Granada	836		1502
	1412	Ponferrada	1187
Guadalquivir	1133	Pontevedra	1475
Huelva	836	Reus	1394
	1430		1475
Huesca	1106	Sabadell	1475
Inca	1385	Salamanca	1106
Jaen	1133		1502
	1426	Sama Langreo	1097
	1520	San Sabastian	773
Jerez	1394		1025
	1520		1097
La Coruna	385		1394
	638	Santa Cruz de Teneriffe	620
	1106	(Canary Is.)	
Las Palmas	953	Santander	1394
	1097		1475
	1268		1570
Leon	1106	Santiago de Compostelo	1405
	1144	Segovia	1500
	1431	Seville	683
Lerida	1430		809
	1520		1187
Linares	1106		1502
Logrono	1475	Socuellamos	1572
Lorca	1430	Soria	1572
Lugo	1430	Tarragona	1133
	1520	Tarrega	1572
Madrid	584	Teruel	1115
	800	Toledo	1160
	917	Tortosa	1570
	953	Valencia	1079
	989		1259
	1097		1424
	1223		1570
	1268	Valladolid	1430
	1385		1484
Malaga	1007		1520
	1133	Vigo	1133
	1430		1394
Manresa	1106		1520
Murcia	854	Vitoria	1106
	1133		1385
	1412	Villa Cisneros	998
	1502	Zamora	1133
Onteniente	1475		1394
Orense	1385		1475
	1505	Zaragoza	872
Oviedo	548		1133
	1132		1313
	1475		1394
Palencia	1133		
Palma de Mallorca	1268	SWEDEN	
	1385	Boden	1594

Sweden—cont.	kHz		kHz
Boraas	1394	Verberg	1394
	1562		1562
Eskilstuna	1562	Västervik	1394
Falkenburg	1448	Västeras	1448
Falun	1223	Visby	1448
Gavle	1448		
Göteborg	980		
	1394	SWITZERLAND	
Halmstad	1394	Basle	1562
	1562	Beromünster	529
Hälsingborg	1448		1562
Hörby	1178	Monte Ceneri	557
Hudiksvall	1394	Saviese	1367
	1448	Sottens	764
Jönköping	1448		
	1594		
Kalmar	1562	SYRIA	
Karlskrona	1448	Aleppo	746
Karlstad	1394		1331
	1562	Damascus	602
Kiruna	1394		665
	1562		782
Kristinehamn	1448		863
	1594	Deir-el-Zor	957
Ludvika	1394	Homs	566
Lulea	182		
	1394		
Malmberget	773	TUNISIA	
	1394	Sfax	584
Malmö	1562		602
Mariestad	1394		719
Motala	191		1421
Norrköping	1562	Tunis	629
Orebro	1562		962
Ornskoldsvik	1394		
	1562	TURKEY	
Ostersund	719	Ankara	182
Pitea	1394	Antalya	1296
Porjus	1529	Diyarbakir	1061
	1594	Erzurun	
Säffle	1448	Istanbul	701
	1594		965
Söderhamn	1394	Kars	1165
	1562	Mersin	629
Stockholm	773	Van	1178
	1394	Trabzon	1307
Sundsvall	593		
	1394		
Trollhättan	1448	UNITED ARAB REPUBLIC (EGYPT)	
	1594	Alexandria	1196
Uddevalla	1394	Aswan	1178
	1562		1277
Umeå	1448	Asyut	708
	1594	Batra	620
Uppsala	1562		818
Vanersborg	1394	Beni Suef	602

United Arab Republic—cont.	kHz		kHz
Beni Suef	1155	Norwich (4)	1088
Cairo	557	(1)	1214
	736	Penmon (4)	881
	773	Plymouth (1)	1214
	872	(3)	1546
	929	Preston (3)	1546
	978	Ramsgate (4)	1484
	1062	Redmoss (1)	647
Luxor	1079	(3)	809
Minia	1079	(4)	1214
Quena	1178	Redruth (1)	1214
Sohag	1142	(3)	1457
		(4)	1546
UNITED KINGDOM		Scarborough (4)	1151
Barnstaple (4)	1052	Stagshaw (4)	1151
Barrow-in-Furness (4)	1484	Start Point (4)	1052
Bartley (4)	692	Stockton-on-Tees (3)	1546
(4)	1457	Swansea (3)	1546
Bexhill (4)	1457	Towyn (4)	881
Bournemouth (1)	1484	Washford (1)	881
(3)	1594	(4)	1214
Brighton (3)	1214	Westerglen (1)	809
(1)	1457	(4)	1214
(4)	1546	Whitehaven (4)	692
Brookmans Park (1)	908	Wrexham (4)	881
(4)	1214		
Burghead (1)	809		
(4)	1214	U. S. S. R.	
Clevedon (4)	1457	Akmolinsk	227
Cromer (4)	1484	Alma-Ata	182
Crowborough (E)	809		227
(E)	1295		780
Daventry (3)	647	Arkhangelsk	375
Divis (3)	1546	Ashkhabad	200
Droitwich (2)	200	Astrakhan	791
(1)	1088	Baku	218
(4)	1214		1016
Dumfries (4)	809		1295
Dundee (3)	1594	Birobidzhan	191
Edinburgh (3)	647	Blagoveshchensk	155
Exeter (3)	1546	Cheboksary	530
Fareham (3)	1214	Chelyabinsk	737
(1)	1546	Chernovtsy	674
Folkestone (4)	1457	Chita	173
Glasgow (3)	647	Dniepropetrovsk	1070
Hull (1)	1214	Donetsk	710
Leeds (3)	1546	Duchanbe	254
Lisnagarvey (1)	1214		800
(4)	1340		1160
Liverpool (3)	1546	Dudinka	340
Londonderry (1)	1214	Elista	845
(4)	1340	Erevan	254
Moorside Edge (1)	692		362
(4)	1214		863
Newcastle-on-Tyne (1)	647	Frunze	611
(3)	1214	Gomel	1493

U. S. S. R. — cont.	kHz		kHz
Gorkii	827	Nalchik	350
Grozni	656	Novosibirsk	272
Ijevsk	584	Nukus	331
Irkutsk	200	Odessa	548
Ivanovo	926		764
Kaliningrad	1115	Omsk	394
	1142	Ordzonikidze	593
Karaganda	746	Orenburg	300
Kaunas	665	Ouchgorod	890
	1385	Parnu	1331
Kazan	200	Perm	872
	254		1088
Khabarovsk	209	Petropavlovsk	155
	335		182
	395		611
	629	Riga	575
	1250		1142
Kharkov	385		1421
	836		1484
	1313	Rostov-na-Don	944
Kiev	209	Saransk	1061
	782	Saratov	340
	1169	Simferopol	647
	1241		1466
Kishinev	998	Smolensk	971
Kothla-Jarve	1331	Stavropol	881
Krasnoyarsk	218	Sverdlovsk	366
Krasnodar	611	Syktvkar	320
Kuldiga	1349		1439
Kursk	1214	Tallinn	710
Kuybychev	809		1034
Leningrad	200		1214
	236		1511
	548	Tartu	1586
	800	Tashkent	164
	1124		400
	1493		1088
	1562	Tbilisi	191
	1570		1043
Lvov	935		1349
Madona	1349	Tselinograd	209
Magadan	236	Ufa	692
Makhatch-Kala	313	Ulan Bator	227
	917	Ulan Ude	
Moscow	151		281
	173	Valmiera	1349
	200	Vilnius	1106
	236		1555
	263	Vinnitsa	836
	385		1376
	872		1546
	1115	Vladivostok	245
	1277		380
Minsk	281		548
	400		710
Murmansk	656	Volgograd	557

U. S. S. R. —cont.	kHz		kHz
Veronezh	254	Molve	1367
	773	Murska Sobota	1493
Yakutsk	263	Nis	926
Yoshkar-Ola	899	Novi Sad	1268
		Novi Sad	1484
VATICAN STATE		Ogulin	1594
Vatican City	782	Ohrid	1484
	1529	Osijek	1133
			1412
YUGOSLAVIA		Petrinja	1520
Belgrade	683	Porec	1484
	1007	Prilep	1484
	1484	Prishtina	1412
Beli Kris Koper	1169	Ptuj	1511
Berovo	1484	Pula Veli	1484
Bihac	1484	Radlje	1241
Bitolja	1484	Radovis	1484
Bitola	1540	Ragusa	1484
Bjelovare	1214	Resen	1484
Bovec	1484	Rijeka	782
Brcko	1484		1133
Brezice	1562	Rovinj	1594
Buje	1484	Sarajevo	611
	1594	Skopje	809
Cacak	1484		1462
Celje	1484		1484
Crnomelj	1241	Slavonski Brod	881
Delcevo	1466	Slejme	773
Djakovo	1484	Slovonj Gradec	1502
Djurdevac	1358	Sombor	1594
Gevgelija	1484	Split	1133
Gospic	1412		1412
	1442		1484
Gostivar	1484	Srdj	1133
Gradacac	1430	Stip	1484
Hvar	1133	Struga	1484
Jajce	1484	Strumica	1484
Jesenice	1594	Svetozarevo	1484
Karlovac	1594	Titograd	881
Kavadarei	1484	Titov Veles	1484
Kicevo	1484	Tolmin	1484
Knin	1484	Trbovlje	1594
Kocani	1484	Tuzla	1484
Koper	1079	Varazdin	1484
Krapina-Zabok	1594		1594
Krizevci	1484	Vinkovci	1594
Krnjaca	1484	Vranje	1295
Ljubljana	917	Vrbovsko	1572
	1484	Vukovar	899
Ludbreg	1493		1484
Maribor	1412	Zadar	1133
Modrica	1484	Zagreb	1133
			1484

ABBREVIATIONS

A. F. N.	American Forces Network
B. B. C.	B. B. C. European Service
B. F. B. S.	British Forces Broadcasting Service
B. R.	Berliner Rundfunk
B. W.	Berlines Welle
B. Y. R.	Bayerischer Rundfunk
D. D. R. 1	Deutscher Demokratischer Rundfunk Programme One
D. F.	Deutschlandfunk
D. F. S.	Deutscher Freiheitsender
D. S.	Deutschland Sender
E. 1	Europa One
H. R.	Hessischer Rundfunk
N. D. R.	Norddeutscher Rundfunk
R. B.	Radio Bremen
R. B. I.	Radio Berlin International
R. F. E.	Radio Free Europe
S. D. R.	Suddeutscher Rundfunk
S. F. B.	Sender Freies Berlin
S. P.	Soviet Programmes
S. R.	Saarlandischer Rundfunk
S. W. F.	Sudwestfunk
V. o. A.	Voice of America
W. D. R.	Westdeutscher Rundfunk

Under United Kingdom, (1), (2), (3), (4) and (E) mean, respectively B. B. C. Radio 1, Radio 2, Radio 3, Radio 4 and European Service.

SHORT-WAVE STATIONS OF THE WORLD

In general, short-wave stations adjust their frequency schedules four times a year, because of different propagation conditions in spring, summer, autumn and winter. Alterations are arranged on an international basis.

Although some stations may use virtually the same channels throughout the year with only minor differences, others use particular frequencies during only one or two of the four periods. The short-wave list therefore has columns marked M, M, S and N, representing the March, May, September and November periods when channelling is changed. Operation in any one of these periods is indicated by an X in the appropriate column. Other changes noted by the listener can be recorded similarly. The columns also indicate the extent of each short-wave band allocated to broadcasting; these indications exclude the out-of-band frequencies which are also occasionally used.

Transmitter power in the short-wave bands is not easily defined, because the majority of stations have a number of senders of varying power, any one of which may be used as required. The powers quoted are therefore the lowest and highest known to operate at a location and should be used only as a rough guide, because it is impossible to cover all the possibilities.

A high-gain aerial, beamed towards the listener, can provide a strong signal from a comparatively low-powered transmitter, although a narrow-beam array, powered with 250 kW but directed away from the receiving site, may be barely audible. Thus power figures merely indicate the capability of a station in terms of field strength; the direction of main radiation may or may not favour a listener outside the target zone.

A station name can be that of the large town nearest to the transmitting site, or it can be the capital of the country even, although there may be more than one transmitting site. Occasionally two different place names are given, separated by an oblique stroke; this indicates that the channel is shared. Where the same transmitter operates at different times on adjacent channels, separate entries are made; this accounts for the multiplicity of entries under some place names.

This list of stations is compiled from information obtained from broadcasting authorities and the Tatsfield receiving station of the B. B. C.

A geographical list of short-wave stations will be found on page 134.

MHz	Metres	kW	Station and Country
2.340	128.2	0.5	• Sao Paulo, Brazil
2.390	125.5	7.5	• Kotaradja, Indonesia
2.850	105.3	120/240	• Pyongyang, N. Korea
3.200	93.7	—	Fukien Front Station, China
3.204/5	93.4	10	Ibadan, Nigeria
3.222	93.14	4/100	Lome, Togoland
3.227	93.01	10	Monrovia, Liberia
3.240	92.59	50	Baghdad, Iraq
3.242	92.58	25	Abidjan, Ivory Coast
3.245	92.45	1	Caracas, Venezuela
3.250	92.31	20	Meyerton, South Africa
3.260	92.02	4	Niamey, Niger
3.265	91.90	25	Brazzaville, Congo
3.265	91.88	2	Georgetown, Guyana
3.270	91.74	2.5/120	Lusaka, Zambia

90 m.

75 m.

MHz	Metres	kW	Station and Country	M	M	S	N
3.277	91.58	7.5	Djakarta, Indonesia				
3.280	91.40	5	Grenada, Windward Is.				
3.285	91.32	1	Aparecida, Brazil				
3.286	91.31	2.5	Poro, Philippines				
3.295	91.05	1	Trujillo, Venezuela				
		5	Kupang, Indonesia				
3.315	90.49	4	Fort de France, Martinique				
3.320	90.36	20	Meyerton, South Africa				
3.325	90.23	5	Maturin, Venezuela				
3.326	90.23	7.5	Kaduna, Nigeria				
3.331	90.09	4	Moroni, Comoro Is.				
3.336	89.95	4	Ziguinchor, Senegal				
3.339	89.90	10	Zanzibar, Tanzania				
3.340	89.90	10	Esmeraldas, Ecuador				
3.345	89.69	1	Caracas, Venezuela				
3.346	89.68	120	Lusaka, Zambia				
3.350	89.55	4	Franceville, Gabon				
		20	Accra, Ghana				
3.355	89.42	10	Hyderabad, India				
		1	Maturin, Venezuela				
3.375	89.0	1	Recife, Brazil				
		10	Luanda, Angola				
3.380	88.80	1	Zacapa, Guatemala				
3.395	88.37	1	Merida, Venezuela				
3.396	88.36	20	Gwelo, Rhodesia				
3.450	86.96	120/240	Peking, China				
3.900	76.92	20/240	Fukien Front Station, China				
3.920	76.56	7.5	Tebrau, Malaysia (BBC)				
3.940	76.20	20	* Meyerton, South Africa				
3.950	76.00	—	Sining, China	X	X	X	
		20/240	Peking, China		X	X	X
3.952	75.89	100/250	London, U.K.	X	X		X
3.960	75.76	100/250	"Radio Free Europe"	X	X	X	X
		50	Baghdad, Iraq		X	X	X
		10	Padang, Indonesia		X	X	X
3.965	76.55	250	Meyerton, South Africa		X		
3.970	75.50	4/30	Buea, Cameroon Rep.	X	X	X	X
		100/250	"Radio Free Europe"	X	X	X	X
		20/240	Peking, China		X	X	X
3.975	75.47	100/250	London, U.K.	X			
		10	Surabaya, Indonesia		X	X	X
3.980	75.38	100	Munich, Germany (W.)	X	X	X	X
		10/20	Lagos, Nigeria		X		
3.985	75.28	250	Berne, Switzerland	X	X	X	X
		10/20	Lagos, Nigeria		X	X	X
3.990	75.19	20	"Radio Liberty"	X	X	X	X
		50/250	Monrovia, Liberia		X		
3.995	75.09	20	"Radio Free Europe"	X		X	X
		5	Caltanissetta, Italy	X	X	X	X
		1/5	Pakan Baru, Indonesia		X	X	X
3.997	75.00	20	Johannesburg, South Africa	X	X		
4.000	75.00	5/135	Budapest, Hungary	X	X		
4.010	74.81	15	Frunze, U. S. S. R.				
4.040	74.25	50/50	Erevan/Magadan, U. S. S. R.				
4.055	73.98	50	Petrovavlovsk, U. S. S. R.				

MHz	Metres	kW	Station and Country
4.080	73.71	50	Semipalatinsk, U. S. S. R.
4.100	73.00	50	Kzyl Orda, U. S. S. R.
4.110	72.60	—	Urumchi, China
4.170	71.70	20/240	Peking, China
4.200	71.24	120/240	Peking, China
4.220	71.09	20/240	Peking, China
4.310	69.61	—	Chimkent, U. S. S. R.
4.380	68.47	—	Fukien Front Station, China
4.395	68.30	50	Yakutsk, U. S. S. R.
4.405	68.08	50	Khabarovsk, U. S. S. R.
4.500	66.56	—	Urumchi, China
4.520	66.37	50	Khanty Manziysk, U. S. S. R.
4.545	66.00	—	Alma-Ata, U. S. S. R.
4.565	65.72	15	Guryev, U. S. S. R.
4.635	64.71	50	Dyushambe, U. S. S. R.
4.656	64.45	50	Baku, U. S. S. R.
4.680	64.10	1	• Espejo, Ecuador
4.684	63.97	—	• Hanoi, N. Vietnam
4.720	63.56	0.25	• Sao Vincent, Cape Verde Is.
4.726	63.48	10	• Loja, Ecuador
4.745	63.24	10	• Lubumbashi, Congo Rep.
4.752	63.15	1	San Jose, Costa Rica
4.760	63.03	10/100	Delhi, India
		1.5	San Antonio, Venezuela
4.765	62.96	1	Bahia, Brazil
4.770	62.89	10	Monrovia, Liberia
		4	Brazzaville, Congo
4.772	62.88	1	Ciudad Bolivar, Venezuela
4.775	62.83	5	Fortaleza, Brazil
		10	Gauhati, India
		100	Kabul, Afghanistan
4.780	62.76	1	Carabobo, Venezuela
		50	Leningrad, U. S. S. R.
4.783	62.73	18	Bamako, Mali
4.785	62.71	50	Baku, U. S. S. R.
		1	Sao Luiz, Brazil
4.790	62.63	5	Portenza, Venezuela
4.795	62.57	50	Ulan Ude, U. S. S. R.
		10	Bandeira, Angola
		0.5	Bahia, Ecuador
		2	Paraiba, Brazil
4.800	62.50	10	Hyderabad, India
		10	Lara, Venezuela
		5	Barquisimeto, Venezuela
4.805	62.42	5	Manaus, Brazil
4.807	62.41	10	Sao Tome, St. Thomas Is.
4.810	62.37	1	Maracaibo, Venezuela
4.813	62.35	—	Libreville, Gabon
4.815	62.33	1	Iquitos, Peru
		4	Ougadougou, Upper Volta
4.820	62.31	5	Tegucigalpa, Honduras
		50	Magadan, U. S. S. R.
		1	Apure, Venezuela
		100	Luanda, Angola
4.825	62.18	1	Rio de Janeiro, Brazil

60 m.

MHz	Metres	kW	Station and Country
4.825	62.18	15	Ashkabad, U. S. S. R.
4.830	62.10	1	Tachira, Venezuela
4.830	62.06	18	Bamako, Mali
4.836	62.05	10	Gaberones, Botswana
4.839	61.99	10	Brazzaville, Congo
4.840	61.98	1	Valera, Venezuela
4.845	61.92	1	Teresina, Brazil
4.850	61.86	50	Tashkent, U. S. S. R.
4.855	61.79	20	Lourenço Marques, Mozambique
		10	Enugu, Nigeria
			Chita, U. S. S. R.
4.860	61.73	50	Moscow, U. S. S. R.
		1	Maracaibo, Venezuela
		10/100	Delhi, India
4.865	61.66	20/240	Peking, China
		25	Lourenço Marques, Mozambique
		1	Ponta Delgada, Azores
		1	Quito, Ecuador
		2.5	Belem, Brazil
4.870	61.60	2	San Raimundo, do Santa Cruz, Guatemala
		30	Cotonou, Dahomey
4.873	61.57	50	Uralsk, U. S. S. R.
4.875	61.55	20/100	Meyerton, South Africa
		5/1	Rio de Janeiro, Brazil
		1	Villavicencio, Colombia
4.880	61.48	10	Caracas, Venezuela
		10	Kinshasa, Congo Rep.
4.883/5	61.43	1	Pocos Caldas, Brazil
4.885	61.40	50	Novosibirsk, U. S. S. R.
		10	Nairobi, Kenya
4.890	61.35	5	Caracas, Venezuela
		25	Dakar, Senegal
4.895	61.29	50/50	Ashkabad/Tyumen, U. S. S. R.
		5	Manaus, Brazil
		250	Meyerton, South Africa
4.900	61.22	10	Barquisimeto, Venezuela
		18	Conakry, Guinea Rep.
		10	Colombo, Ceylon
4.905	61.16	20/240	Peking, China
		5	Rio de Janeiro, Brazil
		30	Fort Lamy, Tchad
4.910	61.10	5	Quito, Ecuador
		10	Maracaibo, Venezuela
		5	Cali, Colombia
4.911	61.09	10/20	Lusaka, Zambia
		1	Lobita, Angola
4.915	61.04	10	Accra, Ghana
		2	Macapa, Brazil
		3	Zaruma, Ecuador
4.920	60.98	7.5	Caracas, Venezuela
		10	Madras, India
		10	Brisbane, Australia
4.925	60.94	25	Lourenço Marques, Mozambique
		5	Bata, Guinea

60 m.

MHz	Metres	kW	Station and Country
4.925	60.94	1	Juis Defora, Brazil
4.930	60.85	1	San Cristobal, Venezuela
		50	Erevan, U. S. S. R.
4.932	60.82	10	Benin City, Nigeria
4.935	60.79	1	Malanje, Angola
		1	Natal, Brazil
4.937	60.75	25	Sanaa, Yemen
4.940	60.73	10	Barquisimeto, Venezuela
		50	Kiev, U. S. S. R.
		10	Abidjan, Ivory Coast
4.945	60.67	20	Meyerton, South Africa
		1	Neiva, Colombia
4.950	60.61	4/25	Dakar, Senegal
		1	Coro, Venezuela
		20/10	Sarawak, Malayasia
4.955	60.54	20	Bogota, Colombia
		10	Padang, Indonesia
		50	Baku, U. S. S. R.
		2	Rio de Janeiro, Brazil
4.960	60.48	10/100	Delhi, India
		1	Caracas, Venezuela
		120/240	Peking, China
4.965	60.45	2.5	Bogota, Colombia
		10/20	Lusaka, Zambia
		10/50	Karachi, Pakistan
4.970	60.36	10	Caracas, Venezuela
		30/4	Yaounde, Cameroon
		10	Colombo, Ceylon
		5	Sabah, Malaysia
4.975	60.30	5/2.5	Sao Luis, Brazil
		50/50	Blagoveshchensk/Dushambe, U. S. S. R.
		3/8	Kampala, Uganda, Peking, China
4.980	60.25	10	Sao Cristobal, Venezuela
		1	Luanda, Angola
		20	Accra, Ghana
4.985	60.18	10	La Paz, Bolivia
		1.5	Ciuaba, Brazil
		10	Kajang, Malaysia
		30	Tananarive, Madagascar
4.990	60.12	50	Alma-Ata, U. S. S. R.
		10	Barquisimeto, Venezuela
		20	Lagos, Nigeria
4.993	60.08	50	Omdurman, Sudan
4.995	60.06	5	Goiana, Brazil
5.005	59.94	0.25	Jaen, Peru
5.009	59.90	1	Bocono, Venezuela
		0.4	Iquitos, Peru
5.010	59.88	10	Singapore, Malaya
		4/30	Garoua, Cameroon
5.015	59.82	50	Vladivostok, U. S. S. R.
5.017	59.79	1	La Paz, Bolivia
5.020	59.76	10	Caracas, Venezuela
		4	Manizales, Colombia

60 m.

MHz	Metres	kW	Station and Country	M	M	S	N
5.025	59.71	1	Cochabamba, Bolivia				
		3/8	Kampala, Uganda				
5.030	59.66	10	Caracas, Venezuela				
		1	Santiago, Dominican Rep.				
5.035	59.57	120/240	Peking, China				
		20/10	Sarawak, Malaysia				
		50	Alma-Ata, U. S. S. R.				
		30	Bangui, Central African Rep.				
5.040	59.52	1	Florencia, Colombia				
		1	Maracaibo, Venezuela				
		50	Tbilisi, U. S. S. R.				
5.041	59.51	50	Rangoon, Burma				
		10	Conakry, Guinea Rep.				
5.045	59.46	1	Rio de Janeiro, Brazil				
		20	Jogjakarta, Indonesia				
5.047	59.45	5	La Paz, Bolivia				
		1	Benguela, Angola				
		4/100	Lome, Togoland				
		2	Caracas, Venezuela				
5.050	59.41	20	Dar es Salaam, Tanzania				
		10	Singapore, Malaya				
5.052	59.39	50	Chita, U. S. S. R.				
		5	Cochabamba, Bolivia				
		10	Tirana, Albania				
5.060	59.29		Petrozavodsk, U. S. S. R.				
5.065	59.23	10					
5.074	59.12	20/50	• Medan, Indonesia				
		35	• Sutatenza, Colombia				
5.125	58.54	120/240	Peking, China				
		120/240	Peking, China				
5.145	58.30	30/240	Peking, China				
5.170	58.03		Fukien Front Station, China				
5.260	57.04	15	Alma-Ata, U. S. S. R.				
5.320	56.39	20/240	Peking, China				
5.445	55.10	20/120	Peking, China				
5.545	54.10	20/240	Peking, China				
		60	• Sanaa, Yemen				
5.740	52.25	60	Erevan, U. S. S. R.				
5.780	51.90	15/50	Moscow, U. S. S. R.				
5.875	51.05	1	• Tegucigalpa, Honduras				
5.900	50.85	50	Moscow, U. S. S. R.				
5.910	50.76	50	Moscow, U. S. S. R.				
5.920	50.70	50	Sofia, Bulgaria				
5.925	50.63	50	Tashkent, U. S. S. R.				
5.930	50.59	15	Arkhangelsk, U. S. S. R.				
		100	Prague, Czechoslovakia				
5.935	50.54	20/240	Peking, China				
5.940	50.51	50	Magadan, U. S. S. R.				
		120	Minsk, U. S. S. R.				
5.945	50.46	120	Tirana, Albania				
5.950	50.42	20/240	Tirana, Albania			X	
		1	Cuenca, Ecuador			X	
5.950	50.42	5/25/60	Sanaa, Yemen			X	X
		3	Port au Prince, Haiti			X	
		5/10	Lima, Peru			X	X
		240	Peking, China			X	X

60 m

49 m

MHz	Metres	kW	Station and Country	M	M	S	N
5.950	50.42	10/50	Saigon-Cholon, S. Vietnam			X	
		10	Surabaya, Indonesia			X	X
		100	Rome, Italy				X
		15/50	Moscow, U. S. S. R.				X
		20/100	Delhi, India				X
5.955	50.38	50	Sackville, Canada	X			
		100	Delano, U. S. A.	X			
		100	Paris, France	X	X	X	X
		50	"Radio Liberty"	X	X	X	X
		10	Lubumbashi, Congo Rep.	X	X	X	
		5	Guatemala, Guatemala	X	X	X	
		7.5	Sao Paulo, Brazil	X	X	X	
		35	Tangier, Morocco	X	X	X	X
		1	Port Limon, Costa Rica	X	X	X	
		20/100	Djakarta, Indonesia	X	X		
		50	Bogota, Colombia	X			
		1	Serrai, Greece	X	X	X	
		240	Peking, China				X
100	Dixon, U. S. A.				X		
5.960	50.34	100	Paris, France	X	X	X	X
		1	Jammu, India	X	X	X	X
		10/250	"Radio Free Europe"	X			
		100	Monte Carlo, Monaco	X	X	X	X
		1	Godthaab, Greenland	X		X	
		1	Sao Rosa Copan, Honduras	X	X	X	
		50	Bogota, Colombia	X	X	X	X
		20/240	Tirana, Albania	X			
		20/50	Damascus, Syria			X	
		50	Kaunas, U. S. S. R.				X
5.965	50.29	100	Rome, Italy	X			
		35/50/100	Tangier, Morocco	X	X	X	X
		250	London, U. K.	X	X	X	X
		1	La Paz, Bolivia	X			
		100	Delano, U. S. A.	X			
		7.5	Porto Alegre, Brazil			X	X
		50	Kajang, Malaysia			X	X
		10	Quetta, Pakistan			X	X
		1	Pedro Sula, Honduras				X
5.970	50.25	10	"Radio Free Europe"	X	X	X	X
		50	Sackville, Canada	X	X		X
		4	Brazzaville, Congo	X			
		10	Gauhati, India	X		X	X
		50	Bogota, Colombia	X	X	X	X
		10/100	Warsaw, Poland	X			
		100	Tashkent, U. S. S. R.	X	X	X	X
		10	Bandjarmasin, Indonesia	X			
		1	Lima, Peru			X	
		10	Dacca, Pakistan			X	X
		0.3	Mazotenengo, Guatemala				X
5.975	50.21	250/100	London, U. K.	X	X	X	X
		20/240	Peking, China	X	X	X	X
		10	Florianopolis, Brazil	X	X	X	X
		2	Georgetown, Guyana	X			
		15/120	Moscow, U. S. S. R.			X	
		10	Gwelo, Rhodesia				X

49 m.

MHz	Metres	kW	Station and Country	M	M	S	N		
5.975	50.21	3	Villarrica, Paraguay				X		
5.980	50.17	10	Medellin, Colombia	X	X	X			
		100	Hilversum, Netherlands	X					
		250	Meyerton, South Africa	X					
		100	Beirut, Lebanon	X	X	X	X		
		100	Tbilisi, U. S. S. R.	X	X	X	X		
		5	Lima, Peru	X	X	X			
		1	Godthaab, Greenland	X	X	X			
		5/20	Dar es Salaam, Tanzania	X	X				
		7.5	Port au Prince, Haiti	X			X		
		2	Georgetown, Guyana				X		
		5.985	50.13	10	"Radio Free Europe"	X	X	X	X
				10	Tunja, Colombia	X	X	X	X
				1	Lomas Mirador, Argentina	X	X	X	X
				50	Tokio, Japan	X			
				100	Hanoi, N. Vietnam	X			
100	Dar es Salaam, Tanzania			X	X	X	X		
7.5	Dacca, Pakistan			X	X				
20	Boston, U. S. A.				X	X	X		
50	Tunis, Tunisia				X	X	X		
100	Berne, Switzerland						X		
5.990	50.08	10	Menado, Indonesia				X		
		50	Sackville, Canada	X			X		
		60/100	Rome, Italy	X	X		X		
		10	Bhopal, India	X	X		X		
		7.5	Brazilia, Brazil	X					
		10/250	Accra, Ghana	X	X				
		10	Mbandaka, Congo	X	X				
		1	Tumbes, Peru				X		
		250	Meyerton, South Africa				X		
		100	Serpukhov, U. S. S. R.				X		
		100	Hörby, Sweden				X		
		250	London, U. K.				X		
		120/18	Bucharest, Rumania				X		
		5.995	50.04	250	Greenville, U. S. A.	X	X	X	X
				35	Thessaloniki, Greece	X	X	X	X
1	Bogota, Colombia			X	X	X	X		
7.5	Warsaw, Poland			X	X	X	X		
100/250	Dixon, U. S. A.						X		
50/100	Hilversum, Netherlands						X		
1	Pedro Sula, Honduras			X			X		
6.000	50.00	4	Innsbruck, Austria	X	X	X	X		
		25	Belo Horizonte, Brazil	X	X	X	X		
		235/50	Moscow, U. S. S. R.	X	X		X		
		7.5	"Radio America", Swan Is.	X	X				
		50	Riyadh, Saudi Arabia	X	X	X	X		
		7.5	Singapore, Malaya	X	X	X	X		
		5	Montevideo, Uruguay				X		
6.005	49.96	100	Hanoi, N. Vietnam				X		
		20	Berlin, Germany (E.)	X	X	X	X		
		100	Munich, Germany (W.)	X	X	X	X		
		0.3	Tripolis, Greece	X	X	X	X		
		6	Warsaw, Poland	X	X	X			
		10	Colombo, Ceylon				X		
		1	San Jose, Costa Rica				X		

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MHz	Metres	kW	Station and Country	M	M	S	N
6.005	49.96	0.5	Montreal, Canada				X
6.010	49.92	20	Brussels, Belgium	X	X	X	X
		100	Moscow, U. S. S. R.	X	X	X	X
		75/100	London, U. K.	X	X	X	X
		5	Mexico City, Mexico	X			
		7.5	Tebrau, Malaysia (BBC)	X	X	X	X
		1	Sydney, Canada	X	X	X	X
		35	Okinawa, Ryukyu Is.	X	X		X
		5	San Salvador, Salvador	X			
		10	Bangkok, Thailand	X	X	X	X
		10	Bogota, Colombia		X	X	X
		100	Rome, Italy				X
		10	Warsaw, Poland				X
6.015	49.89	5	Recife, Brazil	X	X	X	X
		100	Berne, Switzerland	X			X
		50	Rhodes, Greece	X	X	X	X
		100	Abidjan, Ivory Coast	X	X	X	X
		50	Krasnoyarsk, U. S. S. R.				X
6.020	49.83	100/10	Hilversum, Netherlands	X	X	X	X
		2.5	Simla, India	X	X	X	X
		0.5	Tegucigalpa, Honduras	X			
		50	Greenville, U. S. A.	X	X	X	X
		4	Franceville, Gabon	X			
		20/240	Tirana, Albania	X			
		50/50/50	Moscow/Kiev/Khabarovsk, U. S. S. R.			X	X X
		5	Vera Cruz, Mexico				X
		60	Rome, Italy				X
6.025	49.79	100	Jülich, Germany (W.)	X	X	X	X
		100	Lisbon, Portugal	X	X	X	X
		100	Luanda, Angola	X	X	X	X
		10	Sao Paulo, Brazil	X	X	X	X
		10	Kajang, Malaysia	X	X	X	X
		7.5	Teheran, Iran	X	X	X	X
		10	Ascuncion, Paraguay				X
		50	Delhi, India				X
		60	Rome, Italy				X
6.030	49.75	100	Baghdad, Iraq	X	X	X	X
		20	Mülhacker, Germany (W.)	X	X	X	X
		50	Greenville, U. S. A.	X	X	X	X
		2	Valenzuela, Philippines	X	X	X	X
		5	Guatamala, Guatemala	X			
		100	Simferopol, U. S. S. R.				X
6.035	49.71	10	Rio de Janeiro, Brazil	X	X	X	X
		2	San Jose, Costa Rica	X	X	X	X
		30	Monte Carlo, Monaco	X	X	X	X
		50	Monrovia, Liberia	X	X	X	X
		100	Bombay, India	X			
		50	Rangoon, Burma	X	X	X	X
		10	Enugu, Nigeria	X			X
		1	Montevideo, Uruguay				X
6.040	49.67	20/10	Delhi, India	X	X	X	X
		10	Ibaque, Colombia	X	X	X	X
		100	Munich, Germany (W.)	X	X	X	X
		4/30	Yaounde, Cameroon	X	X		X

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MHz	Metres	kW	Station and Country	M	M	S	N		
6.040	49.67	1	San Jose, Costa Rica	X					
		10	Singapore, Malaya	X	X	X	X		
		7.5	Tamsui, Taiwan	X					
		10	Montevideo, Uruguay			X			
6.045	49.62	100	Moscow, U. S. S. R.	X	X	X	X		
		5	Athens, Greece	X	X	X	X		
		25	Curityba, Brazil	X	X				
		20/240	Tirana, Albania	X					
		100	Djakarta, Indonesia	X	X	X	X		
		25/7.5	Sao Paulo, Brazil	X	X	X			
		10	Lima, Peru			X			
		35	Tangier, Morocco				X		
		100	Amman, Jordan				X		
		6.050	49.59	20	Delhi, India	X	X	X	X
50/30	Quito, Ecuador			X	X	X	X		
250/100	London, U. K.			X	X	X	X		
25	Lourenço Marques, Mozambique			X	X				
100	Limassol, Cyprus (BBC)			X	X	X	X		
100	Rome, Italy			X	X	X	X		
20	Irkutsk, U. S. S. R.			X					
100	Berlin, Germany (E.)						X		
6.055	49.56			10	Sao Paulo, Brazil	X	X	X	X
				5	Cali, Colombia	X			
		50	Greenville, U. S. A.	X	X	X	X		
		100	Prague, Czechoslovakia	X	X	X	X		
		50	Kigali, Rwanda	X	X	X	X		
		50	Tallinn, U. S. S. R.	X	X	X	X		
6.060	49.50	50	Tokio, Japan	X	X	X	X		
		25	Caltanissetta, Italy	X	X	X	X		
		20	Delhi, India	X					
		10/50	Havana, Cuba	X	X	X	X		
		15/250	London, U. K.	X					
		50	Buenos Aires, Argentina	X					
		50	Chita, U. S. S. R.	X			X		
		10/100	Kajang, Malaysia	X					
		2	Bangkok, Thailand	X	X	X	X		
		1	Tegucigalpa, Honduras	X		X			
		100	Munich, Germany (W.)			X			
		50	Sackville, Canada			X	X		
		500	Greenville, U. S. A.				X		
6.065	49.46	100	Hörby, Sweden	X	X	X	X		
		10	Brazilia, Brazil	X	X	X			
		1	San Jose, Costa Rica	X	X	X	X		
		50	Greenville, U. S. A.	X		X	X		
		20/100	Tokio, Japan	X	X	X			
		100	Addis Ababa, Ethiopia	X	X	X	X		
		1	Leon, Mexico			X			
		7.5	Rio de Janeiro, Brazil			X	X		
		250	London, U. K.				X		
		100	Limassol, Cyprus (BBC)				X		
6.070	49.42	120	Ashkhabad, U. S. S. R.				X		
		50/100	Sofia, Bulgaria	X	X	X	X		
		100	Accra, Ghana	X	X	X	X		
		10	Karachi, Pakistan	X			X		

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MHz	Metres	kW	Station and Country	M	M	S	N
6.070	49.42	2	Bangkok, Thailand	X	X	X	X
		5	Santiago, Chile		X		
		1	Toronto, Canada			X	X
		0.3	Lima, Peru			X	
		0.5	Sukarnapura, Indonesia				X
6.075	49.38	100	Julich, Germany (W.)	X	X	X	X
		100/60	Rome, Italy	X		X	
		10	Colombo, Ceylon	X	X	X	X
		7.5/5	Thessaloniki, Greece	X		X	
		10	Bogota, Colombia	X	X	X	X
		250	Meyerton, South Africa	X	X		
		35	Okinawa, Ryukyu Is.	X			X
		2.5	Montevideo, Uruguay			X	X
		100/250	London, U. K.			X	X
		50	Volgograd, U. S. S. R.				X
6.080	49.34	35/100	Tangier, Morocco				X
		150	Lima, Peru	X	X	X	X
		250	London, U. K.	X	X	X	X
		50	Algiers, Algeria	X	X	X	X
		50/100	Berlin, Germany (W.)	X	X	X	X
		20	Komsomolsk, U. S. S. R.	X		X	X
		50	Tokio, Japan		X	X	X
		7.5	Tebrau, Malaysia (BBC)	X	X		
6.085	49.30	0.5	Porto Alto, Portugal				X
		35/100	Tangier, Morocco				X
		100	Hilversum, Netherlands	X	X	X	X
		100	Madras, India	X	X	X	
		15	Recife, Brazil	X	X	X	X
		10	Munich, Germany (W.)	X	X	X	X
		50	Tallinn, U. S. S. R.	X	X	X	X
		1	Bogota, Colombia	X	X		
6.090	49.26	1	Tegucigalpa, Honduras			X	
		10/100	Kajang, Malaysia				X
		50	Junglinster, Luxembourg	X	X	X	X
		35	Buenos Aires, Argentina	X	X	X	X
		7.5	San Domingo, Dominica	X	X	X	X
		100	Prague, Czechoslovakia	X			
		100	Kajang, Malaysia	X			
		50	Irkutsk, U. S. S. R.	X			X
6.095	49.22	50	Phnom Penh, Cambodia	X	X	X	X
		10	Kaduna, Nigeria			X	
		250	London, U. K.				X
		10	Lima, Peru	X			
		25	Sao Paulo, Brazil	X	X	X	X
		100	Baghdad, Iraq	X	X	X	X
		50	Vladivostok, U. S. S. R.	X			X
		1	Bangkok, Thailand	X	X	X	X
6.100	49.18	1	Medellin, Colombia	X			
		50	Mogadiscio, Somali Rep.	X	X	X	X
		250	London, U. K.				X
		100	Rome, Italy				X
		100	Paris, France				X
		50	"Radio Liberty"				X
		100	Julich, Germany (W.)	X	X	X	X
		100	Belgrade, Yugoslavia	X	X	X	X

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MHz	Metres	kW	Station and Country	M	M	S	N
6.100	49.18	20/240	Tirana, Albania	X	X		
		0.25	Cap Haitien, Haiti		X	X	
6.105	49.14	10/100	Buenos Aires, Argentina				X
		10	"Radio Free Europe"	X	X	X	X
		5	Medellin, Colombia	X	X		
		7.5	Cap Haitien, Haiti	X			X
		15/120	Dyushambe, U. S. S. R.	X			
		10	Enugu, Nigeria	X			
		1	Bangkok, Thailand	X	X	X	X
		100	Prague, Czechoslovakia		X		
		100	Djakarta, Indonesia	X	X	X	X
		5	Fortaleza, Brazil		X	X	X
		3.5	Taipei, Taiwan				X
6.110	49.10	100/250	London, U. K.	X	X	X	X
		50	Baku, U. S. S. R.	X	X	X	X
		10	Caracas, Venezuela		X		
		0.5	Tegucigalpa, Honduras				X
6.115	49.06	50	Bonaire, Netherlands Antilles			X	X
		100	"Radio Free Europe"	X	X	X	X
		100	Paris, France		X		
		100	Rio de Janeiro, Brazil	X	X	X	X
		5	Berlin, Germany (E.)	X	X	X	X
		50	Brazzaville, Congo	X	X	X	X
		5	Dalat, N. Vietnam	X	X	X	X
6.120	49.02	5	Montevideo, Uruguay			X	X
		10	Surabaya, Indonesia	X	X		
		100	Jülich, Germany (W.)	X	X	X	X
		15	Pori, Finland	X	X	X	X
		150	Berne, Switzerland		X		X
		10	San Fernando, Argentina	X	X		
		50	Bocause, Philippines	X	X	X	
		7.5	Limassol, Cyprus (BBC)	X	X	X	X
		2.5	Cap Haitien, Haiti	X	X		
		50	Sverdlovsk, U. S. S. R.	X	X	X	X
		75/100	London, U. K.				X
		0.5	Tapachula, Mexico				X
		120	Tirana, Albania		X		X
6.125	48.98	10	Karachi, Pakistan	X			
		100	Brussels, Belgium	X	X	X	X
		50	Tangier, Morocco		X		X
		500	Greenville, U. S. A.				
		250	London, U. K.	X	X	X	X
		1	Pedro Sula, Honduras		X		
		10	Luluabourg, Congo	X	X	X	X
		7.5	Sao Paulo, Brazil		X		
		10	Montevideo, Uruguay		X	X	
		15/120	Tashkent, U. S. S. R.				X
6.130	48.94	100	Delano, U. S. A.				X
		100	Madrid, Spain	X	X	X	X
		50/50	Moscow/Vladivostok, U.S.S.R.	X	X	X	X
		0.5	Halifax, Canada	X	X	X	X
		100	Accra, Ghana	X	X	X	X
		10	Colombo, Ceylon		X		
		50	Quito, Ecuador		X	X	X
		20/240	Peking, China		X		

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MHz	Metres	kW	Station and Country	M	M	S	N		
6.130	48.94	10	Caracas, Venezuela	X	X				
		20/240	Tirana, Albania	X	X	X			
		10	Vientiane, Laos	X	X	X			
		100	Jülich, Germany (W.)			X	X		
6.135	48.90	10/100/20	Warsaw, Poland	X	X	X	X		
		10	Porto Alegre, Brazil	X	X	X			
		50	Alma-Ata, U. S. S. R.	X	X	X	X		
		10	Concepcion, Chile	X					
		10	Kajang, Malaysia	X	X	X			
		50/240	Tirana, Albania	X	X	X			
		4	Papeete, Tahiti	X	X				
		250	Meyerton, South Africa			X			
6.140	48.86	10/20	"Radio Free Europe"				X		
		100	Madrid, Spain	X	X	X	X		
		100	London, U. K.	X	X	X	X		
		10	Bujumburu, Burundi	X	X	X			
		20	Tokio, Japan	X					
		0.3	Chihuahua, Mexico	X					
		1	Cali, Colombia	X	X	X			
		2.5	Bangkok, Thailand	X					
		10	Perth, Australia	X	X	X			
		10	Montevideo, Uruguay	X					
		30/100	Prague, Czechoslovakia				X		
		6.145	48.82	100	Jülich, Germany (W.)	X	X	X	X
				50	Rio de Janeiro, Brazil	X	X	X	X
10	Enugu, Nigeria			X	X				
10	Peshawar, Pakistan						X		
250	Delano, U. S. A.						X		
100/50	Moscow/Omsk, U. S. S. R.						X		
6.150	48.78	100	Vatican City, Vatican State				X		
		500/250/100	London, U. K.	X	X	X	X		
		100	Belgrade, Yugoslavia	X	X	X			
		5	Santiago, Chile	X	X	X			
		10	Shepparton, Australia	X	X	X			
		0.5	Guatemala, Guatemala	X					
		10	Peshawar, Pakistan				X		
		18	Bucharest, Rumania				X		
6.155	48.74	1	San Jose, Costa Rica				X		
		100	Vienna, Austria	X	X	X	X		
		0.25	Cap Haitien, Haiti	X					
		50	Baghdad, Iraq	X	X	X	X		
		50	Lvov, U. S. S. R.	X	X	X	X		
		0.6	Lisbon, Portugal	X	X	X	X		
		1	La Paz, Bolivia	X					
		50	Conakry, Guinea Rep.	X					
		50	Singapore, Malaya	X	X	X			
		7.5	Tabriz, Iran	X			X		
6.160	48.70	10	Tokio, Japan	X					
		10	Montevideo, Uruguay	X	X	X			
		20/240	Peking, China				X		
		0.5/0.3	St. Johns, Canada	X	X		X		
		100	Brussels, Belgium	X					
		10	Bogota, Colombia	X	X	X	X		
		120	Tirana, Albania	X					
		20	Saigon-Cholon, S. Vietnam	X	X	X			

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MHz	Metres	kW	Station and Country	M	M	S	N		
6.160	48.70	50	Tangier, Morocco		X		X		
		15/250	London, U. K.				X		
		10/250	Munich, Germany (W.)				X		
6.165	48.66	250	Berne, Switzerland	X	X	X	X		
		7.5	Sao Paulo, Brazil	X	X		X		
		100/100	Kiev/Vladivostok, U. S. S. R.	X			X		
		10	Mexico City, Mexico		X		X		
6.170	48.62	50/20	"Radio Free Europe"	X		X	X		
		10	Lucknow, India	X	X		X		
		1	Caracas, Venezuela	X	X		X		
		100	Tangier, Morocco	X	X		X		
		10	Poro, Philippines		X		X		
		10	Pedang, Indonesia		X				
		25	Ulan Bator, Mongolia		X				
		50	Tunis, Tunisia		X				
		6.175	48.58	100	Paris, France	X	X	X	X
				10	Recife, Brazil	X	X		X
120	Kazan, U. S. S. R.			X	X		X		
100	Kajang, Malaysia				X		X		
6.180	48.54	20	Kaduna, Nigeria		X				
		50	Bogota, Colombia	X	X		X		
		250	London, U. K.		X		X		
		50	Monrovia, Liberia	X	X		X		
		50	Tashkent, U. S. S. R.	X	X		X		
		100	Limassol, Cyprus (BBC)	X					
		1	Guatemala, Guatemala		X		X		
		4	Ziguinchor, Senegal		X				
6.185	48.50	10	Mendoza, Argentina				X		
		120	Tirana, Albania				X		
		100	Julich, Germany (W.)	X	X		X		
		10	Sao Paulo, Brazil	X	X		X		
		100	Lisbon, Portugal	X	X		X		
		10	Colombo, Ceylon		X		X		
		100	Addis Ababa, Ethiopia		X		X		
		1	Mexico City, Mexico		X				
		50	Riazan, U. S. S. R.		X		X		
		100	Prague, Czechoslovakia				X		
6.190	48.47	10/250	"Radio Free Europe"				X		
		250	Dixon, U. S. A.				X		
		100	Vatican City, Vatican State	X	X		X		
		10	Delhi, India	X	X		X		
		250	Greenville, U. S. A.	X	X		X		
		20/240	Tirana, Albania	X			X		
		5	Bremen, Germany (W.)	X	X		X		
		50	Sebaa Aioun, Morocco	X	X		X		
6.195	48.43	10	Padang, Indonesia		X		X		
		0.1	Porto Plata, Dominican Rep.		X				
		35	Petropavlovsk, U. S. S. R.				X		
		50	Baku, U. S. S. R.	X	X		X		
		10	Rio de Janeiro, Brazil	X	X		X		
		50/240	Tirana, Albania		X				
		250	London, U. K.	X	X		X		
10	La Paz, Bolivia				X				
50	Bangkok, Thailand				X				
100	Berlin, Germany (E.)				X				

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MHz	Metres	kW	Station and Country	M	M	S	N
6.195	48.43	50	Tunis, Tunisia	X	X	X	X
6.200	48.39	50/100	Tirana, Albania	X	X	X	X
		50	Vilnius, U. S. S. R.	X			X
		20/50	Damascus, Syria		X		
		1	Cali, Colombia				X
		50	Bangkok, Thailand				X
6.201	48.36	50/100	Tirana, Albania				
6.205	48.35	20/240	Tirana, Albania				X
6.207	48.34	1	•San Jose, Costa Rica				
6.210	48.3	20/240	Tirana, Albania				X X
	48.30	120/240	Peking, China				
6.225	48.19	120/240	Peking, China				
		0.5	•Ankara, Turkey				
6.235	48.12	5/135	Budapest, Hungary				
6.245	48.05	120	Sofia, Bulgaria				
6.250	48.00	10	•Santa Isobel, Guinea				
		20/240	Peking, China				
		120/240	•Pyongyang, N. Korea				
6.260	47.92		Peking, China				
6.275	47.81	20/240	Peking, China				
6.290	47.69	120/240	Peking, China				
6.320	47.47	20/240	Peking, China				
6.344	47.29	120/240	Peking, China				
6.355	47.22	120/240	Peking, China				
6.379	47.10	120/240	Peking, China				
6.386	47.00	120/240	Peking, China				
6.392	46.94	20/240	Peking, China				
6.395	46.92	20/240	Peking, China				
6.400	46.88	20/240	Peking, China				
		120/240	•Pyongyang, N. Korea				
6.405	46.84	0.25	•Bangkok, Thailand				
6.406	46.83	20/240	Peking, China				
6.410	46.79	20/240	Peking, China				
6.469	46.40	1	•Istanbul, Turkey				
6.480	46.32	120/240	Peking, China				
6.535	45.90	120/240	•Pyongyang, N. Korea				
6.540	45.90	120/240	•Pyongyang, N. Korea				
6.560	45.75	20/240	Peking, China				
6.570	45.66	50/100	Peking, China				
6.590	45.52	20/240	Peking, China				
6.600	45.45	120/240	•Pyongyang, N. Korea				
6.601	45.45	20/240	Peking, China				
6.605	45.42	20/240	Peking, China				
6.609	45.40	20/240	Peking, China				
6.620	45.30	20/240	Peking, China				
6.635	45.25	20/240	Peking, China				
6.640	45.24	20/240	Peking, China				
6.645	45.20	20/240	Peking, China				
6.655	45.00	1	Leningrad, U. S. S. R.				
6.665	44.95	20/240	Peking, China				
6.675	44.80	50/100	•Hanoi, N. Vietnam				
6.750	44.44	20/240	Peking, China				
6.790	44.15	20/240	Peking, China				
6.810	44.00	20/240	Peking, China				
6.820	43.95	20/240	Peking, China				

MHz	Metres	kW	Station and Country	M	M	S	N
6.830	43.92	20/240	Peking, China				
6.860	43.73	20/240	Peking, China				
6.873	43.70	5	Greenville, U. S. A.				
6.935	43.26	20/240	Peking, China				
6.955	43.26	20/240	Peking, China				
6.974	43.01	20/240	Peking, China				
7.005	42.82	120/240	Peking, China				
7.010	42.79	20/240	Peking, China				
7.015	42.78	20/240	Peking, China				
7.020	42.76	20/240	Peking, China				
7.025	42.75	20/240	Peking, China				
7.030	42.70	20/240	Peking, China				
7.035	42.61	120/240	Peking, China				
7.040	42.60	20/240	Peking, China				
7.045	42.60	20/240	Peking, China				
7.050	42.55	50/100	▲Cairo, U. A. R. (Egypt)				
7.055	42.52	20/240	Peking, China				
7.056	42.52	100	•Teheran, Iran				
7.060	42.49	20/240	Peking, China				
7.061	42.49	5/240	Tirana, Albania				
7.064	42.46	100	•Teheran, Iran				
7.065	42.46	20/240	Peking, China				
		5/240	Tirana, Albania				
7.075	42.40	20/240	Peking, China				
		50/100	▲Cairo, U. A. R. (Egypt)				
7.077	42.40	5/240	Tirana, Albania				
7.080	42.37	120/240	Peking, China				
		100	Teheran, Iran				
7.083	42.35	5/240	Tirana, Albania				
7.090	42.33	50/240	Tirana, Albania				
7.095	42.28	50/100	▲Cairo, U. A. R. (Egypt)				
		20/240	Peking, China				
7.100	42.25	15/120	Moscow, U. S. S. R.	X		X	X
		100	Budapest, Hungary	X	X	X	X
		20/120	Peking, China	X			
		20/240	Tirana, Albania			X	X
		10/50	Karachi, Pakistan			X	
		1	Janina, Greece				X
7.105	42.22	4	Brazzaville, Congo	X			
		100	Delhi, India	X		X	X
		1	Bangkok, Thailand	X	X	X	X
		100	Madrid, Spain	X	X	X	X
		250	Ascension, Ascension Is. (BBC)	X	X	X	X
		100	Orcha, U. S. S. R.	X	X		
		20/120	Peking, China	X			
		10	Colombo, Ceylon	X	X	X	X
		20	Djakarta, Indonesia			X	
		100	Monte Carlo, Monaco				X
		100	Tangier, Morocco			X	X
		20/240	Tirana, Albania			X	
		50	Rhodes, Greece				X
		50	Damascus, Syria				X
7.110	42.19	50	Kajang, Malaysia	X	X	X	X
		100	London, U. K.	X		X	X
		50	Tula/Omsk, U. S. S. R.	X	X	X	X

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MHz	Metres	kW	Station and Country	M	M	S	N		
7.110	42.19	100	Teheran, Iran		X				
		35	Thessaloniki, Greece				X		
7.115	42.16	10	"Radio Free Europe"	X	X	X	X		
		5	Bangkok, Thailand	X	X	X	X		
		10	Sebaa Aioun, Morocco	X	X	X	X		
		50	Kinshasa, Congo Rep.	X	X	X	X		
		100	Lagos, Nigeria		X				
		10	Denpasar, Indonesia		X				
		10	Colombo, Ceylon		X				
		20/240	Tirana, Albania		X				
		7.120	42.13	100	Bombay, India	X	X	X	X
				7.5	Tebrau, Malaysia (BBC)	X	X	X	X
50	Tula, U. S. S. R.			X		X	X		
250/100	London, U. K.			X	X	X	X		
10	Denpasar, Indonesia				X				
50/240	Tirana, Albania			X		X	X		
100	Limassol, Cyprus (BBC)				X				
50	Rangoon, Burma				X				
20/240	Peking, China				X	X	X		
5	Ulan Bator, Mongolia				X				
7.125	42.11	10/50	Karachi, Pakistan	X					
		20	Delhi, India		X	X			
		15	Warsaw, Poland	X	X	X	X		
		18	Conakry, Guinea Rep.	X	X	X	X		
		120	Peking, China	X	X				
		100	Addis Ababa, Ethiopia		X		X		
7.130	42.08	100	Jülich, Germany (W.)	X	X	X	X		
		250	London, U. K.	X	X	X	X		
		7.5/20	Kajang, Malaysia	X	X				
		20/240	Tirana, Albania	X	X	X	X		
		50	Minhsiung, Taiwan	X	X	X	X		
		100	Lisbon, Portugal	X	X				
		50	Rhodes, Greece	X	X	X	X		
		50	Krasnoyarsk, U. S. S. R.	X	X	X	X		
		100	Rome, Italy		X	X			
		7.135	42.05	15/120	Moscow, U. S. S. R.	X	X	X	X
30	Monte Carlo, Monaco			X	X	X	X		
250	Monrovia, Liberia			X	X	X	X		
20/240	Tirana, Albania			X	X	X			
7.140	42.02	10	Karachi, Pakistan				X		
		10	Hyderabad, India				X		
		0.5	Bangkok, Thailand		X				
		20	Limassol, Cyprus (BBC)	X	X	X	X		
		240	Riga, U. S. S. R.	X	X	X	X		
		75	London, U. K.	X	X	X	X		
		10	Amboina, Indonesia		X	X	X		
7.145	41.99	20/240	Tirana, Albania		X				
		100	Tokio, Japan				X		
		20	"Radio Free Europe"	X	X	X	X		
		10	Kuching, Malaysia	X	X	X	X		
		100/100	Tula/Novosibirsk, U. S. S. R.	X	X	X	X		
		10/20/100	Warsaw, Poland	X	X	X	X		
		20/240	Tirana, Albania		X				
		7.5	Damascus, Syria		X	X			
		7.5/5	Athens, Greece		X				

MHz	Metres	kW	Station and Country	M	M	S	N
7.145	41.99	0.2	Hanoi, N. Vietnam		X		
		250	"Radio Liberty"				X
7.150	41.96	10	Gauhati, India			X	X
		100	London, U.K.	X	X	X	X
		100/240	Serpukhov/Lvov, U.S.S.R.	X	X	X	X
		0.3	Port Amelia, Mozambique	X			
		0.3	Janina, Greece		X	X	
		3	Minhsiung, Taiwan		X	X	X
		20/240	Tirana, Albania		X	X	
7.155	41.93	50	Peking, China	X	X	X	X
		50	"Radio Liberty"	X	X	X	X
		100/7.5	Amman, Jordan	X	X	X	X
		1	Serrai, Greece	X			
		75	London, U.K.		X	X	
		100	Limassol, Cyprus (BBC)		X		
		15/120	Moscow, U.S.S.R.		X		
7.160	41.90	100	Paris, France	X	X	X	
		10	Kuching, Malaysia	X	X	X	X
		100/50	Lvov/Tula, U.S.S.R.	X		X	X
		100	Tangier, Morocco	X		X	
		100	Okinawa, Ryukyu Is.	X		X	
		100	Rome, Italy		X	X	
		100	Vatican City, Vatican State		X	X	X
		20/240	Tirana, Albania		X	X	
		40/250	Cairo, Egypt		X		
		1	Jammu, India		X	X	X
7.165	41.87	20/10	"Radio Free Europe"	X	X	X	X
		20	Delhi, India			X	X
		100	Tripoli, Libya	X	X	X	X
		35	Okinawa, Ryukyu Is.	X	X	X	X
		100	Lvov, U.S.S.R.	X		X	X
		100	Katmandu, Nepal			X	
7.170	41.84	2	Kohima, India	X			
		10	Singapore, Malaya	X	X	X	X
		120/50	Moscow/Novosibirsk, U.S.S.R.	X		X	X
		250	London, U.K.	X	X	X	X
		4	Noumea, New Caledonia		X	X	
		100	Beirut, Lebanon		X	X	
		35	Rhodes, Greece			X	
		250	Darwin, Australia				X
7.175	41.81	20/240	Peking, China				X
		5	Caltanissetta, Italy	X	X	X	X
		30	Prague, Czechoslovakia	X			
		250	Monrovia, Liberia	X	X	X	X
		1	Lobito, Angola	X	X	X	
		18	Bucharest, Rumania	X	X	X	
		10	Saigon-Cholon, S. Vietnam	X	X	X	X
7.180	41.78	120	Starobelsk, U.S.S.R.			X	X
		50	Djakarta, Indonesia			X	X
		50	Kuwait, Kuwait				X
		100	Paris, France		X		
		10	Bhopal, India		X		
		50	"Radio Liberty"	X	X	X	X
		250	Baghdad, Iraq	X	X	X	X
100	Madrid, Spain			X			

MHz	Metres	kW	Station and Country	M	M	S	N	
7.185	41.75	50	Blagoveshchensk, U. S. S. R.	X	X	X	X	
		250/100	London, U. K.	X	X	X	X	
		5	Berlin, Germany (E.)	X	X	X	X	
		100	Lagos, Nigeria			X		
		250	Meyerton, South Africa			X		
		50	Kinshasa, Congo Rep.	X	X	X		
7.190	41.72	35	Minhsiung, Taiwan				X	
		10	Shepparton, Australia		X			
		20/100	"Radio Free Europe"	X	X	X	X	
		50	Peking, China	X	X	X	X	
		10	Colombo, Ceylon	X	X	X	X	
		100	London, U. K.	X				
7.195	41.70	20	Jerusalem, Israel	X	X	X	X	
		15/120	Moscow, U. S. S. R.		X			
		100	Delhi, India	X	X	X	X	
		100/20	Tokio, Japan	X	X	X	X	
		250/50	Monrovia, Liberia	X	X	X	X	
		50	Tula, U. S. S. R.	X	X	X	X	
7.200	41.67	18/120	Bucharest, Rumania	X	X	X	X	
		20/240	Tirana, Albania	X				
		7.5	Lourenço Marques, Mozambique			X	X	X
		8	Kampala, Uganda		X	X		
		20/100	Meyerton, South Africa			X		
		10	Penang, Malaysia	X	X	X	X	
		100	Belgrade, Yugoslavia	X	X	X	X	
		10	Kabul, Afghanistan	X	X	X	X	
		10/50	Peking, China	X	X	X		
		120	Tirana, Albania	X				
7.205	41.64	250	London, U. K.		X	X	X	
		50	Krasnoyarsk, U. S. S. R.		X	X	X	
		50	Omdurman, Sudan		X	X		
		20/100	Delhi, India			X		
		10	Warsaw, Poland			X		
		250	"Radio Free Europe"				X	
7.210	41.61	100	Moscow, U. S. S. R.	X		X	X	
		35	Thessaloniki, Greece	X	X	X	X	
		10	Lubumbashi, Congo Rep.	X	X	X	X	
		10	Beira, Mozambique	X	X	X		
7.215	41.58	10	Calcutta, India	X	X	X		
		250/100	London, U. K.	X	X	X	X	
		100	Monte Carlo, Monaco	X	X			
		50	Vladivostok, U. S. S. R.	X	X	X		
		10	Nairobi, Kenya			X		
		100	Fredrikstad, Norway			X	X	
7.215	41.58	100	Beromünster, Switzerland			X	X	
		100	Delhi, India	X	X	X	X	
		100	Monte Carlo, Monaco	X	X			
		10/50	Karachi, Pakistan	X	X		X	
		1	Hanoi, N. Vietnam	X	X	X		
		20/500	"Radio Free Europe"	X		X		
		100	Cairo, U. A. R. (Egypt)	X	X	X		
		15/120	Moscow, U. S. S. R.			X		
		10	Tromsø, Norway			X		
		10	Abidjan, Ivory Coast			X	X	

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MHz	Metres	kW	Station and Country	M	M	S	N		
7.220	41.55	100	Shepparton, Australia		X	X	X		
		100	Vatican City, Vatican State	X	X				
		50	"Radio Liberty"	X	X	X	X		
		50	Riyadh, Saudi Arabia	X	X	X	X		
		100	Monte Carlo, Monaco	X					
		35	Tangier, Morocco		X	X	X		
		15	Budapest, Hungary		X	X			
		15/120	Moscow, U. S. S. R.		X				
		7.225	41.52	20	Delhi, India	X		X	X
				10	Sebaa Aioun, Morocco	X	X	X	X
120/18	Bucharest, Rumania			X			X		
50	Bocause, Philippines				X	X	X		
7.230	41.49	100	Paris, France	X					
		20	Kurseong, India	X					
		100	London, U. K.	X	X	X	X		
		0.5	Mocamedes, Angola	X					
		100	Monte Carlo, Monaco	X	X	X	X		
		100	Kiev, U. S. S. R.	X	X	X	X		
		1	Bangkok, Thailand		X	X	X		
		20/100	Meyerton, South Africa				X		
		100	Limassol, Cyprus (BBC)				X		
		3	Bocause, Philippines				X		
		7.235	41.47	100	Rome, Italy	X	X	X	X
				100	Delhi, India				X
				15/120	Moscow, U. S. S. R.	X		X	X
75	London, U. K.			X	X	X	X		
20/240	Tirana, Albania			X					
20	Damascus, Syria			X	X	X	X		
100	Okinawa, Ryukyu Is.			X	X	X	X		
7.5	Tebrau, Malaysia (BBC)				X				
10	Luanda, Angola				X	X			
10	Karachi, Pakistan				X	X	X		
100	Paris, France						X		
20/500	"Radio Liberty"						X		
7.240	41.44			100/10	Fredrikstad, Norway	X	X	X	X
		10	Bombay, India				X		
		240	Tula, U. S. S. R.	X	X	X	X		
		250	Ascension, Ascension Is. (BBC)	X					
		50	Ankara, Turkey	X	X	X	X		
		7.5	Medan, Indonesia		X	X	X		
		100	Baghdad, Iraq		X	X	X		
		100	Belgrade, Yugoslavia				X		
		50	Karachi, Pakistan				X		
7.245	41.41	10/50	"Radio Free Europe"	X	X	X	X		
		100	Vienna, Austria	X	X	X	X		
		100	Gedja, Ethiopia	X					
		1.5	Taipei, Taiwan	X	X				
		20	Saigon-Cholon, S. Vietnam	X	X	X	X		
		100	Monte Carlo, Monaco		X	X			
		4	Nouachott, Martinique				X		
7.250	41.38	100	Luanda, Angola			X	X		
		250	"Radio Free Europe"	X	X	X	X		
		100	Vatican City, Vatican State	X	X	X	X		
		10	Lucknow, India	X		X			
		240	Tula, U. S. S. R.	X	X	X	X		

MHz	Metres	kW	Station and Country	M	M	S	N
7.250	41.38	250	London, U. K.	X			X
		10	Tamsui, Taiwan	X			X X
		7.5	Singapore, Malaya	X X			X X
7.255	41.35	10	Lagos, Nigeria	X X			X
		50	Sofia, Bulgaria	X X			X X
		100	Paris, France			X	X X
		20	Delhi, India			X	X X
		50	"Radio Free Europe"				X X
7.260	41.32	100	Madras, India	X X			X X
		100	Minsk, U. S. S. R.	X X			X X
		250	London, U. K.	X X			X X
		100	Monte Carlo, Monaco	X X			X X
		20/240	Tirana, Albania				X
		100	Paris, France			X	X X
		100	Limassol, Cyprus (BBC)			X	X
7.265	41.29	15/100	Budapest, Hungary			X	
		50	Tirana, Albania	X X			X X
		240/100	Riazan/Krasnoyarsk, U.S.S.R.	X			X X
		20	Rohrdorf, Germany (W.)	X X			X X
		100	Lome, Togoland				X
7.270	41.27	250	Meyerton, South Africa	X X			X X
		7.5	Srinagar, India			X	
		10	Warsaw, Poland	X			
		35	Tangier, Morocco	X X			X X
		50	Erevan, U. S. S. R.	X X			X X
		250	London, U. K.	X X			X X
		50	Rhodes, Greece			X	X X
		7.5	Kuching, Malaysia			X	
		50	Djakarta, Indonesia			X	X X
		100	Jülich, Germany (W.)	X X			X X
7.275	41.24	100/60	Rome, Italy	X X			X X
		35	Colombo, Ceylon	X X			X X
		100	Lagos, Nigeria	X X			X X
		50	Poro, Philippines			X	X
		50	Peking, China			X	X X
		100	Minsk, U. S. S. R.			X	X X
		10	Karachi, Pakistan				X
		100	Paris, France	X X			X X
7.280	41.21	250	Monrovia, Liberia	X X			X X
		200/100	Moscow/Komsomolsk, U. S. S. R.	X X			X X
		1.5	Taipei, Taiwan			X	
		20/240	Tirana, Albania			X	X X
		100	Berlin, Germany (E.)				X
7.285	41.18	140/250	Bethany, U. S. A.				X
		100/20	Delhi, India			X	X X
		50/120	Khabarovsk, U. S. S. R.	X X			X X
		100/20	Warsaw, Poland	X X			X X
		50	Rhodes, Greece	X X			X X
		10	Sa da Bandeira, Angola	X			
		10	Lagos, Nigeria			X	
7.290	41.15	250	"Radio Liberty"				X
		100	Jülich, Germany (W.)	X X			X X
		100/60	Rome, Italy	X X			X X

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MHz	Metres	kW	Station and Country	M	M	S	N		
7.290	41.15	20/10	Delhi, India			X	X		
		20/240	Tirana, Albania	X	X	X	X		
		120	Moscow, U. S. S. R.	X					
		35	Thessaloniki, Greece	X	X	X	X		
		10/100	Addis Ababa, Ethiopia	X	X	X	X		
		100	Monte Carlo, Monaco	X	X	X	X		
		100	Hanoi, N. Vietnam				X		
		7.295	41.12	250	"Radio Liberty"	X	X	X	X
				100	Monte Carlo, Monaco	X			X
				120	Tirana, Albania	X			X
35/100	Tangier, Morocco			X					
5	Athens, Greece			X	X		X		
50/50	Moscow/Krasnoyarsk, U. S. S. R.			X	X	X			
7.300	41.10	10	Gaberones, Botswana		X				
		10	Penang, Malaya				X		
		50/50	Petrozavodsk/Novosibirsk, U. S. S. R.	X		X	X		
		5	Berlin, Germany (E.)	X	X	X	X		
		10	Kajang, Malaysia	X	X	X			
		50/240	Tirana, Albania	X	X	X	X		
7.301	41.09	10	Enugu, Nigeria						
		50/240	Tirana, Albania						
7.305	41.07	5/240	Tirana, Albania						
7.309	41.04	50	Kiev, U. S. S. R.						
7.310	41.04	5/240	Tirana, Albania						
7.312	41.04	15/50	Moscow, U. S. S. R.						
7.315	41.01	100/240	Peking, China						
		20/240	Peking, China						
		100	Minsk, U. S. S. R.						
7.320	40.99	75/100	London, U. K.						
		15/100	London, U. K.						
		5/240	Tirana, Albania						
7.325	40.96	100	Kiev, U. S. S. R.						
		15/50	Dyushambe, U. S. S. R.						
7.330	40.93	120/240	Peking, China						
7.335	40.90	15/120	Moscow, U. S. S. R.						
7.340	40.87	100	Prague, Czechoslovakia						
7.345	40.85	20/240	Peking, China						
		15/120	Moscow, U. S. S. R.						
7.350	40.82	100	Moscow, U. S. S. R.						
7.360	40.76	50	Ulan Bator, Mongolia						
7.365	40.75	15/50	Moscow, U. S. S. R.						
7.370	40.73	20/240	Peking, China						
7.375	40.71	50/100/140	Cairo, U. A. R. (Egypt)						
		20	Magadan, U. S. S. R.						
7.380	40.65	15/120	Moscow, U. S. S. R.						
7.390	40.60	20	Moscow, U. S. S. R.						
7.400	40.54	15/120	Moscow, U. S. S. R.						
7.420	40.43	20/240	Peking, China						
7.430	40.38	20/240	Peking, China						
7.435	40.35	100	Moscow, U. S. S. R.						
7.440	40.32	20/240	Peking, China						
7.440	40.32	100	Moscow, U. S. S. R.						
7.450	40.27	20/240	Peking, China						
7.480	40.11	20/240	Peking, China						

MHz	Metres	kW	Station and Country
7.500	40.00	120/240	Peking, China
7.550	39.74	20/240	Peking, China
7.580	39.61	120/240	•Pyongyang, N. Korea
7.595	39.60	20/240	Peking, China
7.610	39.42	20/240	Peking, China
7.620	39.37	20/240	Peking, China
7.651	39.20	5	•Greenville, U. S. A.
7.658	39.11	20/240	Peking, China
7.670	39.11	15	Sofia, Bulgaria
7.700	38.96	20/240	Peking, China
7.747	38.73	12	London, U. K.
7.800	38.48	20/240	Peking, China
7.810	38.40	20/240	Peking, China
7.820	38.32	20/240	Peking, China
7.824	38.31	20/240	Peking, China
7.910	37.95	20/240	Peking, China
7.970	37.61	4	•Berne, Switzerland
9.009	33.31	50/7.5	•Tel Aviv, Israel
9.020	33.26	20/240	Peking, China
9.038	33.20	20/240	Peking, China
9.042	33.18	20/240	Peking, China
9.080	33.02	20/240	Peking, China
9.090	33.10	20	Alma-Ata, U. S. S. R.
9.150	32.79	15	Alma-Ata, U. S. S. R.
9.250	32.43	15	Alma-Ata, U. S. S. R.
9.279	32.35	20/240	Peking, China
9.290	32.28	20/240	Peking, China
		5/240	Tirana, Albania
9.298	32.25	20/240	Peking, China
9.317	32.20	12	London, U. K.
9.332	32.18	5/240	Tirana, Albania
9.340	32.12	20/240	Peking, China
9.347	32.10	5/240	Tirana, Albania
9.350	32.10	15	Irkutsk, U. S. S. R.
		5/240	Tirana, Albania
		20/240	Peking, China
9.355	32.10	20/240	Peking, China
9.360	32.05	20/50	•Madrid, Spain
9.363	32.04	5/240	Tirana, Albania
9.365	32.03	120/240	Peking, China
9.370	32.02	20/240	Peking, China
		100	•Madrid, Spain
9.376	32.00	120/240	Peking, China
9.380	31.98	15	Alma-Ata, U. S. S. R.
		20/240	Peking, China
9.386	31.96	20/240	Peking, China
9.390	31.95	20/240	Peking, China
9.397	31.91	120	Tirana, Albania
9.406	31.89	—	Tirana, Albania
9.410	31.88	100	London, U. K.
9.423	31.83	—	•Bangkok, Thailand
9.430	31.81	—	•Hanoi, N. Vietnam
9.440	31.78	20/240	Peking, China
9.450	31.75	15/120	Moscow, U. S. S. R.
9.460	31.72	240	Peking, China

MHz	Metres	kW	Station and Country	M	M	S	N
9.470	31.68	100	Moscow, U. S. S. R.				
9.475	31.66	50/100	▲Cairo, U. A. R. (Egypt)				
9.480	31.65	50	Moscow, U. S. S. R.				
		120/240	Peking, China				
9.485	31.63	20/240	Peking, China				
9.486	31.63	—	Tirana, Albania				
9.489	31.61	—	Tirana, Albania				
9.490	31.61	15/120	Moscow, U. S. S. R.				
		120/240	Peking, China				
9.495	31.60	50/100	▲Cairo, U. A. R. (Egypt)				
9.498	31.60	20/240	Peking, China				
9.500	31.58	50/500	Tirana, Albania	X	X	X	X
		50/100	Berlin, Germany (E.)	X	X	X	X
		20/240	Peking, China			X	X
		100	Kiev, U. S. S. R.	X	X	X	X
9.505	31.56	20	Santo Domingo, Dominican Rep.	X	X	X	X
		100/250	"Radio Free Europe"	X		X	X
		50	Omdurman, Sudan				X
		15/50	Tula, U. S. S. R.	X	X	X	X
		100	Prague, Czechoslovakia	X	X	X	X
		20/240	Peking, China	X	X		
		50/500	Tirana, Albania			X	X
		100	Belgrade, Yugoslavia	X	X	X	X
		50/100	Cairo, U. A. R. (Egypt)	X			
		20	Warsaw, Poland				X
		100	Tokio, Japan	X	X	X	X
		50	Bocau, Philippines	X		X	X
9.510	31.55	100	London, U. K.	X	X	X	X
		250	Ascension, Ascension Is. (BBC)				X
		100	Limassol, Cyprus (BBC)	X			
		10	Barquisimeto, Venezuela	X	X	X	X
		18/120	Bucharest, Rumania	X		X	X
		50	Algiers, Algeria				
		100	Madras, India	X	X	X	X
		50/500	Tirana, Albania				X
9.515	31.53	20	Mexico City, Mexico			X	X
		5	Caltanissetta, Italy	X	X	X	X
		100	Ankara, Turkey	X	X	X	X
		10	Kajang, Malaysia	X	X	X	X
		50	Krasnoyarsk, U. S. S. R.			X	X
		10	Montevideo, Uruguay			X	
		100	Cairo, U. A. R. (Egypt)				X
9.520	31.51	50	"Radio Free Europe"				X
		7.5	Wellington, New Zealand	X	X	X	X
		50	"Radio Liberty"	X	X	X	X
		50	Magwa, Kuwait	X	X	X	X
		100/150	Leningrad/Armavir, U.S.S.R.	X	X	X	X
		50	Copenhagen, Denmark	X	X	X	X
		100	Lagos, Nigeria			X	
		10	Port Moresby, Papua			X	X
		100	Paris, France			X	X
		20/240	Peking, China	X		X	X
		1	Arica, Chile			X	
9.525	31.50	50	Havana, Cuba	X	X	X	X
		100	Tokio, Japan	X	X	X	X

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MHz	Metres	kW	Station and Country	M	M	S	N		
9. 525	31. 50	50	Delhi, India	X	X		X		
		250	Meyerton, South Africa	X	X	X	X		
		100	Hilversum, Netherlands	X	X	X	X		
		100	Bethany, U. S. A.				X		
		250	Greenville, U. S. A.	X	X	X			
		20/100	Warsaw, Poland	X	X	X	X		
		50/100	Cairo, U. A. R. (Egypt)				X		
		100	Vienna, Austria	X	X		X		
		30	Monte Carlo, Monaco	X	X				
		50/500	Tirana, Albania	X					
		—	Nicosia, Cyprus (Testing)		X				
		9. 530	31. 48	25	Bogota, Colombia				X
				100/250	London, U. K.				X
				20/100	Delhi, India	X	X	X	X
				100	Berlin, Germany (E.)	X	X	X	
240	Moscow, U. S. S. R.			X	X	X	X		
35	Poro, Philippine Is.			X		X	X		
250	Greenville, U. S. A.			X	X	X	X		
20	Hanoi, N. Vietnam				X		X		
100	Tokio, Japan			X	X	X	X		
35	Tangier, Morocco			X			X		
100	Amman, Jordan			X	X	X	X		
250	Monrovia, Liberia			X	X	X	X		
10	Calcutta, India			X			X		
250	Meyerton, South Africa				X	X			
9. 535	31. 46			150	Salonika, Greece				X
		100	Berne, Switzerland	X	X	X	X		
		100	Delhi, India	X	X	X	X		
		10	Kuching, Malaysia	X			X		
		100	Tripoli, Libya				X		
		100	Luanda, Angola				X		
9. 540	31. 45	25/100	Vatican City, Vatican State				X		
		7.5	Wellington, New Zealand		X	X	X		
		140	Bethany, U. S. A.	X					
		100	Prague, Czechoslovakia	X	X	X	X		
		100/200	Tashkent/Petropavlo, U.S.S.R.	X	X	X	X		
		100	Munich, Germany (W.)	X	X	X	X		
		20	Lubumbashi, Congo Rep.		X	X	X		
		8	Warsaw, Poland	X	X	X	X		
		35/100	Tangier, Morocco				X		
		100	Shepparton, Australia	X			X		
9. 545	31. 43	35	Thessaloniki, Greece	X	X	X	X		
		100	Jülich, Germany (W.)	X	X	X	X		
		50/500	Tirana, Albania				X		
		20/240	Peking, China	X	X		X		
		50	Ulan Bator, Mongolia	X	X	X	X		
		200	Delano, U. S. A.	X	X	X	X		
		100	Beirut, Lebanon	X	X	X	X		
		100	Tema, Ghana	X	X	X	X		
		35/100	Poro, Philippine Is.	X	X		X		
		35/100	Okinawa, Ryukyu Is.		X	X			
		0.5	Vera Cruz, Mexico				X		
		50	Bonaire, Netherland Antilles				X		
		7.5	Curityba, Brazil				X		
		9. 550	31. 41	5	San Salvador/Salvador	X			

MHz	Metres	kW	Station and Country	M	M	S	N		
9.550	31.41	15	Pori, Finland	X	X	X	X		
		100	Fredrikstad, Norway			X	X		
		1	Valparaiso, Chile		X				
		7.5	Makassar, Indonesia	X	X	X	X		
		120	Moscow, U. S. S. R.	X	X	X	X		
		100	Dar es Salaam, Tanzania			X	X		
		100	Warsaw, Poland			X	X		
		250	Ascension, Ascension Is. (BBC)	X					
		50/100	Cairo, U. A. R. (Egypt)				X		
		10	Havana, Cuba	X	X	X	X		
		10	Marhubi, Tanzania		X	X			
		9.555	31.40	100	"Radio Liberty"	X	X	X	X
				50	Baghdad, Iraq	X	X	X	X
15	Poro, Philippine Is.			X	X	X	X		
50/200	Dixon, U. S. A.			X					
50/250	Monrovia, Liberia			X					
9.560	31.38	100	Irkutsk, U. S. S. R.	X					
		50/500	Greenville, U. S. A.	X	X	X	X		
		100	Prague, Czechoslovakia	X	X	X	X		
		50/100	Berlin, Germany (E.)			X	X		
		100	Addis Ababa, Ethiopia	X					
		50	Jeddah, Saudi Arabia	X					
		50	Serpukhov, U. S. S. R.	X	X	X	X		
		10/100	Shepparton, Australia	X	X	X	X		
		100	Teheran, Iran	X	X	X	X		
		100	Paris, France	X	X	X	X		
		150	Lima, Peru	X	X	X	X		
		100	Tokio, Japan	X	X	X	X		
		50	Sofia, Bulgaria	X	X	X	X		
100	Amman, Jordan	X	X	X	X				
9.565	31.36	35/100	Poro, Philippine Is.	X	X	X	X		
		10/100	Kajang, Malaysia			X			
		200	Dixon, U. S. A.	X		X			
		250	Greenville, U. S. A.	X					
		110	Bethany, U. S. A.		X	X			
		15	Recife, Brazil	X	X	X	X		
		100	Moscow, U. S. S. R.	X	X	X	X		
		10	"Radio Free Europe"	X	X	X	X		
		250	Kigali, Rwanda	X	X	X	X		
		10	Puno, Peru				X		
		100/250	London, U. K.	X		X			
		10	Santiago, Chile				X		
		9.570	31.35	10/100	Tebrau, Malaysia (BBC)	X	X	X	X
100	Monte Carlo, Monaco					X	X		
10	San Cristobal, Venezuela				X	X			
100	Madrid, Spain			X	X	X	X		
250	Meyerton, South Africa					X	X		
10/100	Shepparton, Australia			X	X	X	X		
18/120	Bucharest, Rumania			X	X	X	X		
100	Berlin, Germany (E.)						X		
10	Puno, Peru			X	X	X	X		
100	Warsaw, Poland			X	X	X	X		
9.575	31.33	100	Riazan, U. S. S. R.	X		X			
		100/60	Rome, Italy	X	X	X	X		
		50	Boston, U. S. A.				X		

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MHz	Metres	kW	Station and Country	M	M	S	N
9.575	31.33	100	Prague, Czechoslovakia	X	X	X	X
		100	Monte Carlo, Monaco			X	X
		100	Bombay, India		X	X	X
		100	Delhi, India	X	X		
		100	Ulan Bator, Mongolia	X	X	X	
9.580	31.32	50/500	Tirana, Albania			X	
		250	Ascension, Ascension Is. (BBC)	X	X	X	X
		7.5	Tebrau, Malaysia (BBC)		X	X	
		200	Kazan, U. S. S. R.	X	X	X	X
		10/100	Shepparton, Australia	X	X	X	X
		10	Taipei, Taiwan	X	X	X	X
		20/240	Peking, China		X		
		25	Bucharest, Rumania				X
		50/200	Saigon-Cholon, S. Vietnam	X			
		50	Malolos, Philippines	X	X	X	X
9.585	31.30	100	Vatican City, Vatican State				X
		100	Lisbon, Portugal	X	X	X	X
		50	Sabboura, Syria			X	X
		50/100	Cairo, U. A. R. (Egypt)		X		
		100	Paris, France	X	X	X	X
		250	Dixon, U. S. A.	X	X	X	
		200	U. S. S. R.	X	X	X	X
		50/500	Tirana, Albania		X		
9.590	31.28	50	Djakarta, Indonesia	X	X	X	X
		150	Berne, Switzerland	X	X	X	X
		100	Hilversum, Netherlands	X	X	X	X
		100	Katmandu, Nepal (Testing)		X		
		0.3	Santo Domingo, Dominican Rep.	X	X	X	
		20/240	Peking, China		X		
		25	Bucharest, Rumania	X	X	X	X
		300	Bonaire, Netherland Antilles	X	X	X	X
		1	Santiago, Chile		X	X	X
		10	Delhi/Madras, India	X	X	X	X
		100	Monte Carlo, Monaco	X	X	X	X
		50	Omsk, U. S. S. R.	X	X	X	X
9.595	31.27	100	Cairo, U. A. R. (Egypt)			X	
		150	Berne, Switzerland	X		X	
		50	"Radio Free Europe"	X	X	X	X
		50	Tokio, Japan	X	X	X	X
		20/240	Peking, China		X		X
		100	U. S. S. R.		X		
		20	Salvador, Brazil	X	X	X	X
		10	Montevideo, Uruguay				X
9.600	31.25	100	London, U. K.	X	X	X	X
		250	Ascension, Ascension Is. (BBC)	X	X	X	X
		100	Limassol, Cyprus (BBC)	X			
		100	Berlin, Germany (E.)				X
		50	Tashkent, U. S. S. R.	X	X	X	X
		20	Delhi, India				X
		120	Bucharest, Rumania	X	X		
		100	Addis Ababa, Ethiopia			X	X
		1	Santiago, Chile	X	X		
9.605	31.23	100	Prague, Czechoslovakia	X	X	X	X
		100	Madrid, Spain				X
		5/7.5	Athens, Greece	X	X	X	X

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MHz	Metres	kW	Station and Country	M	M	S	N		
9.605	31.23	50	Bonaire, Netherland Antilles	X	X	X	X		
		100	Monte Carlo, Monaco	X		X	X		
		100	Julich, Germany (W.)	X	X	X	X		
		50	Serpukhov, U. S. S. R.	X	X	X	X		
		10	Kuching, Malaysia			X	X		
		100	Vatican City, Vatican State			X			
		250	Dixon, U. S. A.		X	X	X		
		100	Prague, Czechoslovakia	X					
		100	Tokio, Japan				X		
		20/240	Peking, China				X		
		9.610	31.22	50	Brazzaville, Congo	X	X		X
				50	Sackville, Canada				X
				100	Fredrikstad, Norway	X			X
10	Rio de Janeiro, Brazil			X	X	X	X		
100	Julich, Germany (W.)			X	X	X	X		
100	Kiev, U. S. S. R.			X	X	X	X		
10/50	Perth, Australia			X	X	X	X		
10/50	Vienna, Austria			X	X	X	X		
4	Nouakchott, Mauritanian Rep.					X	X		
50	"Radio Liberty"			X					
9.613	31.21	100	Kabul, Afghanistan				X		
		50	Bogota, Colombia				X		
9.615	31.20	100	Brussels, Belgium	X	X	X	X		
		50	Boston, U. S. A.	X			X		
		100	Tangier, Morocco	X	X	X	X		
		5/135	Budapest, Hungary			X			
		50	Poro, Philippines	X	X	X	X		
		3	San Jose, Costa Rica	X	X	X	X		
		1	Dundo, Angola	X	X	X	X		
9.620	31.19	100	Delhi, India	X	X	X	X		
		25/100	Vatican City, Vatican State			X	X		
		20	Montevideo, Uruguay		X	X	X		
		100	Paris, France	X	X	X	X		
		50	Saigon-Cholon, S. Vietnam	X	X	X	X		
		10/100	Delhi, India			X			
		100	Belgrade, Yugoslavia	X	X	X	X		
		10	Sao Paulo, Brazil	X	X	X	X		
		120/50	Moscow/Krasnoyarsk, U. S. S. R.		X	X	X		
		X	X	X	X				
9.625	31.17	50	Sackville, Canada	X	X	X	X		
		100	Hörby, Sweden		X	X	X		
		100	Limassol, Cyprus (BBC)	X	X	X	X		
		50	Moscow, U. S. S. R.				X		
		1	Iquitos, Peru	X	X				
		50	Jerusalem, Israel	X	X	X	X		
		100	Monte Carlo, Monaco				X		
9.630	31.15	100	Prague, Czechoslovakia	X	X	X	X		
		200	Serpukhov, U. S. S. R.	X	X	X	X		
		100	Monte Carlo, Monaco		X	X	X		
		3	Minhsiung, Taiwan				X		
		20/240	Peking, China		X				
		50	Bogota, Colombia	X	X	X	X		
		10/100	Lisbon, Portugal	X	X	X			
		50	Sackville, Canada	X					
		100	Vatican City, Vatican State	X	X	X	X		

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31 m.

MHz	Metres	kW	Station and Country	M	M	S	N
9.630	31.15	1	Luanda, Angola	X	X	X	X
		100	Delhi, India	X	X	X	X
		35	Colombo, Ceylon				X
		100	Rome, Italy				X
9.635	31.14	100	London, U. K.	X	X	X	X
		10/40	Warsaw, Poland				X
		100	Monte Carlo, Monaco				X
		250	Greenville, U. S. A.	X	X	X	X
		7.5	Aparecida, Brazil	X	X	X	X
		50	Singapore, Malaya	X	X	X	X
9.640	31.12	18	Bamako, Mali				X
		250	London, U. K.	X	X	X	X
		120	Moscow, U. S. S. R.	X	X	X	X
		100	Jülich, Germany (W.)	X	X	X	X
		50	Suwon, S. Korea	X	X	X	X
		35	Thessaloniki, Greece				X
9.645	31.10	250	Greenville, U. S. A.	X	X	X	X
		10	Karachi, Pakistan	X	X	X	
		2	San Jose, Costa Rica				X
		10/120	Fredrikstad, Norway				X
		30	Quito, Ecuador	X	X	X	X
		25/100	Vatican City, Vatican State	X	X	X	X
9.650	31.09	50	Kazan/Khabarovsk,	X	X	X	X
		7.5	Pocos de Caldas, Brazil	X	X	X	X
		7.5	Limassol, Cyprus (BBC)	X	X	X	X
		500	Greenville, U. S. A.	X	X	X	X
		100	Jülich, Germany (W.)				X
		100	Moscow, U. S. S. R.	X	X	X	X
9.655	31.07	100	Conakry, Guinea Rep.	X	X	X	X
		1	Santiago, Chile	X			
		10	"Radio Free Europe"			X	
		35/100	Poros, Philippines	X	X	X	X
		100	Jülich, Germany (W.)	X	X	X	X
		50	Bangkok, Thailand	X	X	X	X
		100	Minsk/Chita, U. S. S. R.	X			X
		10/100	Havana, Cuba	X	X	X	X
		20	Chachapoyas, Peru	X			
		50/200	Dixon, U. S. A.	X			
9.660	31.06	100	Monte Carlo, Monaco	X	X	X	
		100/250	London, U. K.				X
		250	"Radio Liberty"	X	X	X	X
		100	Munich, Germany (W.)				X
		10	Brisbane, Australia				X
		100	Minsk, U. S. S. R.	X	X	X	X
		35	Thessaloniki, Greece	X			X
		50	Kajang, Malaysia	X	X	X	X
		35	Tangier, Morocco	X			X
		100	Luanda, Angola				X
9.665	31.04	50	Sofia, Bulgaria	X	X	X	X
		100	Berne, Switzerland	X	X	X	X
		50/120	Omsk/Ivanofrankovsk,				
			U. S. S. R.	X	X	X	X
		10	Brazilia, Brazil	X	X	X	X
		100/250	London, U. K.				X
	35/100	Colombo, Ceylon	X			X	

MHz	Metres	kW	Station and Country	M	M	S	N
9.670	31.02	20	Hue, S. Vietnam	X	X	X	X
		500	Greenville, U. S. A.	X	X	X	X
		100	Jeddah, Saudi Arabia	X	X	X	X
		15/50	Moscow, U. S. S. R.	X	X	X	X
		200	Tokio, Japan	X	X	X	X
9.675	31.01	25/100	Vatican City, Vatican State	X		X	X
		240	Voronezh, U. S. S. R.			X	
		10	Warsaw, Poland	X	X	X	X
		100	Madrid, Poland				X
		250	Bonaire, Netherland Antilles	X			
		50/100	Tokio, Japan	X	X	X	X
		7.5	Florianopolis, Brazil	X	X	X	X
9.680	31.99	1	Lima, Peru	X			
		100	Monte Carlo, Monaco	X	X		
		50/250	"Radio Liberty"	X	X	X	X
		100	Lisbon, Portugal	X	X	X	X
		10/100	Shepparton, Australia	X	X	X	X
9.685	30.98	35	Thessaloniki, Greece			X	
		100	Delhi, India	X	X	X	
		20	Bloemfontein, South Africa			X	
		25	Panchiao, Taiwan	X	X	X	X
		240/50	Moscow/Erevan, U. S. S. R.	X	X	X	X
		50	Algiers, Algeria			X	X
		100	Cairo, U. A. R. (Egypt)			X	X
9.690	30.96	7.5	Sao Paulo, Brazil	X	X	X	X
		100	Vatican City, Vatican State	X	X	X	
		100	London, U. K.			X	X
		100	Limassol, Cyprus (BBC)	X	X	X	X
		20/50	Bogota, Colombia	X	X	X	X
		100	Buenos Aires, Argentina	X	X	X	X
		10	Tamsui, Taiwan	X	X	X	
		35	Thessaloniki, Greece	X			
		100	Novosibirsk, U. S. S. R.	X	X	X	X
		100	Boston, U. S. A.			X	X
		100	Delhi, India	X	X	X	X
9.695	30.94	35/100	Tangier, Morocco	X			
		100	Lagos, Nigeria			X	X
		50	Bonaire, Netherland Antilles	X	X	X	X
		50/10	"Radio Free Europe"	X	X	X	X
		100	Berne, Switzerland	X			
		100	Addis Ababa, Ethiopia			X	X
		7.5	Manaus, Brazil	X	X	X	X
		100	Delhi, India			X	X
9.700	30.93	50	Phnom Penh, Cambodia	X	X	X	X
		50/100	Lisbon, Portugal			X	
		15/120	Moscow, U. S. S. R.				
		10/50	Karachi, Pakistan				X
		120	Sofia, Bulgaria	X	X	X	X
		15/120	Moscow, U. S. S. R.			X	X
		100	Paris, France	X	X	X	X
		100	Tokio, Japan	X	X	X	X
		100	Delano, U. S. A.	X	X	X	X
		50/500	Tirana, Albania			X	
9.705	30.91	250	Meyerton, South Africa	X	X	X	X
		50	"Radio Free Europe"	X		X	X

MHz	Metres	kW	Station and Country	M	M	S	N
9.705	30.91	20/100	Delhi, India	X	X	X	X
		20	Tokio, Japan	X	X		X
		1	Santiago, Chile	X			
		250	Lisbon, Portugal				X
		100	Addis Ababa, Ethiopia			X	X
		50	Lvov, U. S. S. R.	X	X		
9.710	30.90	10	Rio de Janeiro, Brazil	X	X	X	X
		250	London, U. K.	X			X
		60/100	Rome, Italy	X	X	X	X
		35	Thessaloniki, Greece	X	X	X	X
		50	Kajang, Malaysia	X	X	X	X
		240	Kiev, U. S. S. R.	X	X	X	X
9.715	30.88	1	Managua, Nicaragua				X
		30	Berlin, Germany (E.)				X
		6	Buenos Aires, Argentina		X	X	X
		1	Tarapoto, Peru				X
		100	Hilversum, Netherlands	X	X	X	X
		100	Tangier, Morocco	X			X
9.720	30.86	100	Orenburg, U. S. S. R.		X	X	X
		20/100	Delhi, India				X
		50	Bocaue, Philippines	X	X	X	X
		50	Brazzaville, Congo	X	X	X	X
		250	London, U. K.	X	X		X
		50/500	Tirana, Albania	X			
9.725	30.85	100	Berne, Switzerland		X	X	X
		120	Riazan, U. S. S. R.	X			X
		50	Riyadh, Saudi Arabia	X	X	X	X
		10	Hyderabad, India	X	X	X	X
		10	Colombo, Ceylon	X			X
		25	Dakar, Senegal Republic	X	X		X
9.730	30.83	100/250	London, U. K.		X		
		50	Rio de Janeiro, Brazil	X	X	X	X
		7.5	Tebrau, Malaysia (BBC)	X	X	X	X
		50	Greenville, U. S. A.	X	X	X	X
		10	"Radio Free Europe"	X	X	X	X
		100	Jerusalem, Israel	X	X	X	X
9.735	30.82	100/50	Tbilisi/Irkutsk, U. S. S. R.	X			
		50	Berlin, Germany (E.)		X	X	X
		50	Leipzig, (Germany (E.))	X	X	X	X
		120	Moscow, U. S. S. R.	X			X
		20/240	Peking, China				X
		100	Bangkok, Thailand	X	X	X	X
9.740	30.80	15	Brazzaville, Congo	X	X	X	X
		7.5	Porto Alegre, Brazil	X	X	X	X
		50	Bonaire, Netherland Antilles				X
		100	Jülich, Germany (W.)	X	X	X	X
		250	Monrovia, Liberia	X	X	X	X
		100	Tula, U. S. S. R.	X	X	X	X
9.740	30.80	250	Kigali, Rwanda	X	X	X	X
		100	Monte Carlo, Monaco	X	X	X	X
		100	Dixon, U. S. A.	X	X	X	X
		100	Cairo, U. A. R. (Egypt)				X
		100	London, U. K.	X			X
		250	London, U. K.	X	X	X	X
		7.5	Tebrau, Malaysia (BBC)		X		X

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MHz	Metres	kW	Station and Country	M	M	S	N
9.740	30.80	120	Moscow, U. S. S. R.	X		X	X
		100	Brussels, Belgium	X	X	X	X
		100	Lisbon, Portugal	X	X	X	X
		100	Dixon, U. S. A.		X		
		10	Buenos Aires, Argentina	X	X	X	X
		50	Delhi, India	X	X	X	X
9.745	30.79	7.5	Dacca, Pakistan	X	X		X
		25/100	Quito, Ecuador	X	X	X	X
		20	Ankara, Turkey	X	X	X	X
		250	Moscow, U. S. S. R.	X	X	X	X
		50	Bamako, Mali	X	X	X	X
		100	Berlin, Germany (E.)			X	
9.750	30.77	7.5	Sao Paulo, Brazil	X	X	X	X
		7.5	Taichung, Taiwan	X	X		
		100	London, U. K.	X	X	X	X
		100	Limassol, Cyprus (BBC)		X		
		50	"Radio Liberty"	X	X	X	X
		250	Monrovia, Liberia	X	X	X	X
9.755	30.75	20/240	Peking, China		X		
		100	Madras, India	X	X	X	
		50	Karachi, Pakistan	X	X	X	X
		1/10	Santiago, Chile	X	X		X
		5	Goiana, Brazil	X			
		15/100	Budapest, Hungary	X	X	X	X
		140	Bethany, U. S. A.			X	X
		10	Saigon-Cholon, S. Vietnam	X	X	X	X
		100	Paris, France	X	X		X
		50	Orcha, U. S. S. R.	X	X	X	
9.760	30.74	7.5	Wellington, New Zealand	X			
		20/120	Peking, China	X	X	X	
		50/500	Tirana, Albania		X	X	X
		100	Hörby, Sweden				X
		100	Ivanofrankovsk, U. S. S. R.	X	X	X	X
		20	Madrid, Spain	X	X	X	X
		100	Munich, Germany (W.)	X	X	X	X
		100	Tangier, Morocco				X
9.765	30.72	250	Tema, Ghana		X	X	X
		100/250	London, U. K.	X	X	X	X
		20	Delhi, India	X	X	X	X
		50/500	Tirana, Albania		X		X
		50	Taipei, Taiwan	X	X	X	X
		100	Jülich, Germany (W.)	X	X	X	X
		100	Tokio, Japan	X	X	X	X
9.770	30.71	25/100	Vatican City, Vatican State			X	
		100/120	Leningrad/Omsk, U. S. S. R.	X	X	X	X
		50/100	Cairo, U. A. R. (Egypt)			X	
		100	Vienna, Austria	X	X	X	X
		100	London, U. K.	X	X	X	X
		500	Greenville, U. S. A.	X	X		X
		25/100	Vatican City, Vatican State	X			
		100	Vladivostok, U. S. S. R.	X	X	X	X
9.770	30.71	20	Djakarta, Indonesia	X	X	X	X
		1	Cap Haitien, Haiti	X			
		10	Rio de Janeiro, Brazil	X	X		X
		50/500	Tirana, Albania	X	X		

31 m.

MHz	Metres	kW	Station and Country	M	M	S	N
9.775	30.69	15/100	Moscow, U. S. S. R.	X	X	X	X
		10	Kinshasa, Congo Rep.	X	X	X	X
		20/240	Peking, China	X		X	X
		100	Tokio, Japan	X			
		50/100	Cairo, U. A. R. (Egypt)	X	X	X	
9.780	30.67	50/500	Tirana, Albania	X		X	X
		▲ Cairo, U. A. R. (Egypt)				X	
		15/120	Moscow, U. S. S. R.				
9.785	30.66	15/120	Moscow, U. S. S. R.				
9.787	30.66	50/500	Tirana, Albania				
9.790	30.64	50	Khabarovsk, U. S. S. R.				
9.795	30.63	50/100	▲ Cairo, U. A. R. (Egypt)				
9.800	30.61	15/120	Moscow, U. S. S. R.				
		20/240	Peking, China				
9.805	30.59	50/100	▲ Cairo, U. A. R. (Egypt)				
9.810	30.58	50	Moscow, U. S. S. R.				
9.818	30.55	15/120	Moscow, U. S. S. R.				
9.820	30.55	50/100	▲ Cairo, U. A. R. (Egypt)				
9.825	30.53	75	London, U. K.				
9.833	30.50	5/135	Budapest, Hungary				
9.840	30.49	50	Baku, U. S. S. R.				
			Hanoi, N. Vietnam				
9.850	30.46	20	Moscow, U. S. S. R.				
9.855	30.44	20/240	Peking, China				
9.860	30.43	240	Peking, China				
9.864	30.41	7.5/10	Dacca, Pakistan				
9.865	30.40	50/500	Tirana, Albania				
9.870	30.38	20/240	Peking, China				
9.880	30.36	20/240	Peking, China				
9.892	30.31	20/240	Peking, China				
9.898	30.28	20/240	Peking, China				
9.900	30.28	120/240	Peking, China				
9.912	30.26	10/100	Delhi, India				
9.915	30.26	75	London, U. K.				
9.920	30.24	120/240	Peking, China				
9.925	30.23	20/240	Peking, China				
9.940	30.18	20/240	Peking, China				
9.945	30.17	20/240	Peking, China				
9.955	30.14	20/240	Peking, China				
9.964	30.11	20/240	Peking, China				
9.976	30.05	—	Sanaa, Yemen				
—	10.000	30.00	Rugby, U. K.				
10.021	29.94	—	Quito, Ecuador				
10.117	29.61	50/100	▲ Cairo, U. A. R. (Egypt)				
10.157	29.55	20/240	Peking, China				
10.154	29.54	20/240	Peking, China				
10.177	29.50	20/240	Peking, China				
10.190	29.44	20	Moscow, U. S. S. R.				
10.242	29.31	20/240	Peking, China				
10.253	29.28	20/240	Peking, China				
10.254	29.28		Greenville, U. S. A.				
10.260	29.20	20/240	Peking, China				
10.335	29.03	10/100	Delhi, India				
10.338	29.01	20					U. S. S. R.
10.420	28.80	—	"Radio Free Europe"				

MHz	Metres	kW	Station and Country	M	M	S	N
10.454	28.70	5	Greenville, U. S. A.				
10.530	28.49	50	Alma-Ata, U. S. S. R.				
10.620	28.25	20	Moscow, U. S. S. R.				
10.740	27.93	20	Moscow, U. S. S. R.				
10.865	27.61	20	Khabarovsk, U. S. S. R.				
		20/240	Peking, China				
10.870	27.61	20	Magadan, U. S. S. R.				
11.100	27.03	20/240	Peking, China				
11.198	26.78	—	Moscow, U. S. S. R.				
11.290	26.57	20/240	Peking, China				
11.300	26.55	20/240	Peking, China				
11.330	26.48	20/240	Peking, China				
11.344	26.47	20/240	Peking, China				
11.350	26.43	—	Pyongyang, N. Korea				
11.445	26.23	120/240	Peking, China				
11.501	26.08	20/240	Peking, China				
11.505	26.05	120/240	Peking, China				
11.570	25.93	50	Moscow, U. S. S. R.				
11.575	25.92	20	Moscow, U. S. S. R.				
11.590	25.90	20/240	Peking, China				
			Moscow, U. S. S. R.				
11.600	25.86	20/240	Peking, China				
11.615	25.85	—	Moscow, U. S. S. R.				
11.620	25.82	10/100	Delhi, India				
11.630	25.80	15/120	Leningrad, U. S. S. R.				
		20/240	Peking, China				
11.650	25.75	50/100	Cairo, U. A. R. (Egypt)				
11.655	25.74	50/100	Cairo, U. A. R. (Egypt)				
11.660	25.73	20/240	Peking, China				
11.671	25.71	7.5	Dacca, Pakistan				
11.675	25.70	120/240	Peking, China				
			"Radio Free Europe"				
11.685	25.67	20/240	Peking, China				
		50/100	Cairo, U. A. R. (Egypt)				
11.690	25.66	50/100	Petropavlovsk, U. S. S. R.				
11.695	25.65	20/240	Peking, China				
11.700	25.64	100/120	Leningrad/Serpukhov,				
			U. S. S. R.				
		100	Vatican City, Vatican State	X	X	X	X
		250	Bonaire, Netherlands Antilles	X	X	X	X
		100	Warsaw, Poland	X			
		100	Monte Carlo, Monaco	X	X	X	X
		120	Peking, China	X	X	X	X
		0.5/1	Quezatenango, Guatemala				X
		5	Grenada, Windward Is.				X
11.705	25.63	10/250	"Radio Free Europe"				X
		100	Vatican City, Vatican State	X	X	X	X
		100	Hörby, Sweden	X	X	X	X
		240	Serpukhov, U. S. S. R.	X	X	X	X
		250	London, U. K.	X	X	X	X
		100	Teheran, Iran	X			X
		100	Tokio, Japan			X	X
		50	Peking, China			X	X
		7.5	Wellington, New Zealand			X	X
		100	Lagos, Nigeria			X	

25 M.

MHz	Metres	kW	Station and Country	M	M	S	N
11.705	25.63	7.5/20	Djakarta, Indonesia		X		
		20/100	Delhi, India				X
		100	Monte Carlo, Monaco				X
		250	Greenville, U. S. A.				X
		100	Islamabad, Pakistan				X
11.710	25.62	50/100	Cairo, U. A. R. (Egypt)				X
		10/50	Shepparton, Australia	X	X	X	X
		100	Madrid, Spain	X	X	X	X
		250	Greenville, U. S. A.	X			
		100/50	Delhi, India	X	X	X	X
		100/50	Brazzaville, Congo	X			
		50	Moscow, U. S. S. R.	X	X	X	X
		100	Buenos Aires, Argentina	X	X	X	X
		250	London, U. K.	X	X	X	X
		20/100	Djakarta, Indonesia	X	X	X	
11.715	25.61	120	Peking, China		X		
		50	Rhodes, Greece		X	X	X
		100	Tangier, Morocco				X
		100/150	Berne, Switzerland	X	X	X	X
		50	Bonaire, Netherlands Antilles	X	X	X	
		240	Orcha, U. S. S. R.	X	X	X	X
		100	Lagos, Nigeria	X			
		50	Algiers, Algeria	X			
		100	Brussels, Belgium	X	X	X	X
		20/240	Peking, China	X		X	
11.720	25.60	100	Okinawa, Ryukyu Is.	X			
		160	Delhi, India		X	X	X
		50	Tinang, Philippines		X	X	X
		10	Brazilia, Brazil	X	X	X	X
		50	Sackville, Canada	X	X	X	X
		20	Limassol, Cyprus (BBC)	X	X	X	X
		100	Vatican City, Vatican State	X	X	X	X
		50	Sverdlovsk, U. S. S. R.	X	X	X	X
		5/7.5	Athens, Greece	X	X	X	X
		50	Peking, China	X	X	X	X
11.725	25.59	100	Warsaw, Poland	X	X		
		75	London, U. K.		X	X	
		50	"Radio Free Europe"	X	X	X	X
		75	Tebrau, Malaysia (BBC)	X	X		
		100	Omsk, U. S. S. R.	X	X	X	X
		50	Brazzaville, Congo	X	X	X	X
		18/120	Bucharest, Rumania	X	X		
		50	Sackville, Canada	X	X		
		100/20/10	Warsaw, Poland	X	X	X	
		50	Taipei, Taiwan	X	X	X	X
11.730	25.58	100	Paris, France	X	X	X	X
		100/250	London, U. K.	X			
		10	Caracas, Venezuela	X			
		100	Delhi, India			X	X
		7.5	Athens, Greece			X	
		100/50	Lisbon, Portugal	X	X	X	X
		20/50	"Radio Liberty"				X
		100	Hilversum, Netherlands	X	X	X	X
		50	Boston, U. S. A.	X		X	
		100	Addis Ababa, Ethiopia	X	X		

25 m.

MHz	Metres	kW	Station and Country	M	M	S	N
11.730	25.58	100	Teheran, Iran	X	X	X	
		50	Vinnitsa, U. S. S. R.	X	X	X	X
		100/35	Poro, Philippines	X	X	X	X
		50	Rabat, Morocco	X			
		100	Vatican City, Vatican State		X	X	X
		120	Peking, China				X
		100	Okinawa, Ryukyu Is.				X
		300	Bonaire, Netherlands Antilles				X
		11.735	25.56	240	Vinnitsa, U. S. S. R.	X	X
100/10	Fredrikstad/Tromsø, Norway			X	X	X	X
50	Tangier, Morocco			X	X	X	X
100	Belgrade, Yugoslavia			X	X	X	X
7.5	Goiana, Brazil			X	X		
50	Havana, Cuba			X	X		X
100	Lisbon, Portugal			X			
100	Meyerton, South Africa						X
50	Karachi, Pakistan						X
11.740	25.55	5	Montevideo, Uruguay				X
		100	Shepparton, Australia	X	X	X	X
		100	Vatican City, Vatican State	X	X	X	X
		250	Greenville, U. S. A.	X	X	X	X
		250	Monrovia, Liberia	X	X	X	X
		5	Mexico City, Mexico	X	X	X	
		50	Delhi, India	X	X	X	X
		50	Novosibirsk, U. S. S. R.	X	X	X	X
		240	Peking, China	X			X
		1	Santiago, Chile	X	X	X	X
		100	Warsaw, Poland		X		
		50	Karachi, Pakistan		X		
		100	Monte Carlo, Monaco		X	X	
		50	Bonaire, Netherlands Antilles				X
		100	Boston, U. S. A.				X
		11.745	25.54	240	Minsk, U. S. S. R.	X	X
50	Karachi, Pakistan				X	X	X
35/100	Tangier, Morocco			X			
7.5	Sao Paulo, Brazil				X		
50	Bonaire, Netherlands Antilles				X		
100	Vatican City, Vatican State						X
11.750	25.53	100	Monte Carlo, Monaco				X
		250/100	London, U. K.	X	X	X	X
		75/7.5	Tebrau, Malaysia (BBC)	X	X	X	X
		20/240	Tirana, Albania	X			
		100	Moscow, U. S. S. R.		X	X	X
11.755	25.52	10/1	Tokio, Japan		X	X	
		240/240/100	Leningrad/Tbilisi/Vladivostok, U. S. S. R.	X	X	X	X
		10/100	Delhi, India		X		
11.760	25.51	100	Cairo, U. A. R. (Egypt)			X	
		100	Tripoli, Libya			X	
		100	Quito, Ecuador				X
		100	Thessaloniki, Greece	X	X	X	X
		100	Vatican City, Vatican State	X	X	X	X
		100	Vienna, Austria	X	X	X	
		100	Havana, Cuba	X	X	X	X
		100	Sverdlovsk, U. S. S. R.	X	X	X	X

25 m.

MHz	Metres	kW	Station and Country	M	M	S	N		
11.760	25.51	50	Tangier, Morocco	X		X	X		
		100	Warsaw, Poland	X					
		100	Delhi, India	X	X				
		250	London, U. K.	X	X	X	X		
		50	Hanoi, N. Vietnam	X	X				
		4	Fort Lamy, Tchad	X	X	X	X		
		100	Rome, Italy	X					
		500	Greenville, U. S. A.	X			X		
		30/100	Prague, Czechoslovakia	X					
		120	Peking, China			X	X		
		11.765	25.5	100	Hörby, Sweden	X		X	
				50	Sofia, Bulgaria	X	X	X	X
50/100	Cairo, U. A. R. (Egypt)			X	X	X	X		
25	Sao Paulo, Brazil			X	X	X	X		
100/100	Erevan/Leningrad, U. S. S. R.			X	X	X	X		
50	Sackville, Canada			X					
100	Delhi, India			X			X		
10	Shepparton, Australia			X					
100	Abidjan, Ivory Coast			X					
120	Peking, China					X	X		
10	La Paz, Bolivia					X			
100	Quito, Ecuador						X		
11.770	25.49	120/240	Pyongyang, N. Korea			X	X		
		250	London, U. K.	X		X	X		
		35	Tangier, Morocco	X	X	X	X		
		100	Delano, U. S. A.	X	X	X	X		
		20	Djakarta, Indonesia	X	X	X	X		
		100	Lagos, Nigeria	X	X	X	X		
		250	"Radio Liberty"	X	X	X	X		
		15/120	Moscow, U. S. S. R.	X					
		35	Thessaloniki, Greece			X			
		100	Addis Ababa, Ethiopia				X		
		50	Karachi, Pakistan				X		
		11.775	25.48	120/120	Armavir/Kursk, U. S. S. R.	X	X	X	X
150	Berne, Switzerland			X	X	X	X		
50	Poro, Philippines			X	X	X	X		
20	"Radio Free Europe"			X					
100	Hanoi, N. Vietnam			X					
100	Delhi, India			X	X	X	X		
100	Warsaw, Poland			X					
100	Addis Ababa, Ethiopia			X					
100	Kabul, Afghanistan					X	X		
100	Lagos, Nigeria					X			
100	Paris, France					X	X		
11.780	25.47			100	Shepparton, Australia	X			
		100	London, U. K.	X	X	X	X		
		7.5	Lourenço Marques, Mozambique			X			
		20/120	Bucharest, Rumania	X					
		7.5	Wellington, New Zealand	X					
		100	Tokio, Japan	X	X	X	X		
		8	Hurlingham, Argentina	X	X	X	X		
		120	Peking, China	X	X				
		100	Krasnoyarsk, U. S. S. R.	X		X			
		100	Warsaw, Poland	X					

25 m.

MHz	Metres	kW	Station and Country	M	M	S	N		
11.780	25.47	100	Hanoi, N. Vietnam			X	X		
11.785	25.46	250	Meyerton, South Africa	X					
		100	Lisbon, Portugal	X					
		100	Julich, Germany (W.)	X	X	X			
		50/100	Vinnitsa/Sverdlovsk, U.S.S.R.	X	X	X	X		
		7.5	Porto Alegre, Brazil	X	X	X	X		
		100	Baghdad, Iraq	X	X	X	X		
		100	Vienna, Austria	X	X	X	X		
		100	Beirut, Lebanon	X			X		
		250	Kigali, Rwanda	X	X	X	X		
		100	Berlin, Germany (E.)	X	X	X	X		
		50/100	Vatican City, Vatican State				X		
		11.790	25.45	100	Shepparton, Australia	X	X	X	X
				240/120	Riazan/Frunze, U. S. S. R.	X	X	X	X
				100/35	Tangier, Morocco	X	X	X	X
100	Paris, France			X					
18	Bucharest, Rumania			X	X	X			
100	Delhi, India				X	X	X		
100	Brazzaville, Congo			X					
100	Warsaw, Poland				X				
50	Poro, Philippines				X	X			
50	Bogota, Colombia				X				
20/240	Peking, China				X	X	X		
35	Thessaloniki, Greece					X			
100	Hörby, Sweden					X			
500	Greenville, U. S. A.						X		
50	Kabul, Afghanistan				X				
11.795	25.43	100	Julich, Germany (W.)	X	X	X	X		
		10	Rio de Janeiro, Brazil	X	X	X	X		
		15/120	Moscow, U. S. S. R.	X	X	X	X		
		100	Tripoli, Libya	X	X	X	X		
		50	Red Lion, U. S. A.	X	X	X	X		
		50	Kinshasa, Congo Rep.	X					
		250	Kigali, Rwanda				X		
		20/240	Tirana, Albania		X				
11.800	25.42	50	Santa Cruz de Teneriffe, Canary Is.	X	X	X	X		
		15/120	Moscow, U. S. S. R.	X	X	X	X		
		100	Prague, Czechoslovakia	X	X	X	X		
		250	Ejura, Ghana	X	X	X			
		100/20/10	Warsaw, Poland	X	X	X	X		
		120	Peking, China	X	X	X	X		
		60	Rome, Italy	X	X	X	X		
		35	Colombo, Ceylon	X	X	X	X		
		100	Madrid, Spain	X					
		20/100	Delhi, India				X		
		100	Tripoli, Libya				X		
		11.805	25.41	100	Hörby, Sweden	X		X	
				100	Cairo, U. A. R. (Egypt)	X			
				10	Rio de Janeiro, Brazil	X	X	X	X
50	Delano, U. S. A.			X	X	X	X		
250	Greenville, U. S. A.			X	X		X		
50	Kazan, U. S. S. R.			X	X	X	X		
100	Poro, Philippines			X	X	X	X		
15	Pori, Finland			X	X	X	X		

25 m.

MHz	Metres	kW	Station and Country	M	M	S	N
11.805	25.41	100	Delhi, India	X	X	X	X
		50	Tangier, Morocco			X	X
		120	Bucharest, Rumania			X	
		50	Karachi, Pakistan			X	X
		100	Bangkok, Thailand			X	X
		120	Peking, China			X	
		250	London, U.K.				X
		7.5	Tebrau, Malaysia (BBC)				X
11.810	25.40	100	Shepparton, Australia	X	X	X	X
		100/60	Rome, Italy	X	X	X	X
		25/18/14	Bucharest, Rumania	X	X	X	X
		240	Simferopol, U. S. S. R.	X	X	X	X
		50	Algiers, Algeria	X	X	X	X
		100	Delhi, India	X	X	X	X
		5	Amman, Jordan	X	X	X	X
		120	Peking, China			X	X
11.815	25.39	100	Hörby, Sweden				X
		10	"Radio Free Europe"	X	X	X	X
		50/100	Khabarovsk, U. S. S. R.	X	X		X
		50	Bonaire, Netherlands Antilles	X	X		X
		100/40/20	Warsaw, Poland	X	X	X	X
11.820	25.38	100	Tokio, Japan			X	X
		100	Addis Ababa, Ethiopia				X
		250	Ascension, Ascension Is.(BBC)	X	X	X	X
		260/50	Bonaire, Netherlands Antilles	X	X	X	X
		25	Lourenço Marques, Mozambique	X	X	X	X
		100/120/50	Murmansk/Tbilisi/Frunze, U. S. S. R.	X	X	X	X
		240	Peking, China	X	X	X	X
		100	Monte Carlo, Monaco	X	X		
		120	Bucharest, Rumania	X	X		
		120	Tirana, Albania			X	
11.825	25.37	7.5	Wellington, New Zealand				X
		100	London, U.K.				X
		100	Berlin, Germany (E.)				X
		50	"Radio Free Europe"	X	X	X	X
		50	Novosibirsk, U. S. S. R.	X	X		X
		10	Recife, Brazil	X	X	X	X
		4	Papeete, Tahiti			X	
		25	Taipei, Taiwan			X	X
11.830	25.36	500	Greenville, U. S. A.	X	X	X	X
		100	Moscow, U. S. S. R.	X	X	X	X
		100	Bombay, India	X	X	X	X
		75	London, U.K.	X	X	X	
		35	Okinawa, Ryukyu Is.				X
		250	Delano, U. S. A.			X	X
11.835	25.35	250	Bethany, U. S. A.				X
		50	Krasnoyarsk, U. S. S. R.	X	X	X	X
		35	Colombo, Ceylon	X	X	X	X
		100	Algiers, Algeria	X	X	X	X
		1	Cap Haitien, Haiti	X	X	X	X
		5	Montevideo, Uruguay	X			X
		120	Peking, China	X			
500	Greenville, U. S. A.			X	X		

25 m

MHz	Metres	kW	Station and Country	M	M	S	N
11. 835	25. 35	50	Omdurman, Sudan				X
11. 840	25. 34	100	Shepparton, Australia	X			
		100	Lisbon, Portugal	X	X	X	X
		100	Berlin, Germany (E.)	X			
		50	Moscow, U. S. S. R.	X	X	X	X
		100/40	Warsaw, Poland	X	X	X	X
		50	Hanoi, N. Vietnam	X	X	X	X
		100	Lagos, Nigeria	X			
		100	London, U. K.				X
		75	Tebrau, Malaysia (BBC)				X
		250	Darwin, Australia				X
11. 845	25. 33	100	Paris, France	X		X	X
		50	Kazan, U. S. S. R.	X	X	X	X
		250	Greenville, U. S. A.	X	X	X	X
		100	Rome, Italy	X	X		X
		50	Bonaire, Netherlands Antilles	X	X		
		100	Lourenço Marques, Mozambique	X	X		X
		100	Delhi, India		X		X
		120	Tirana, Albania		X		
		10	Curityba, Brazil		X	X	
		100	Addis Ababa, Ethiopia			X	X
		100/250	Berne, Switzerland				X
11. 850	25. 32	100	Fredrikstad, Norway	X	X	X	X
		100	Kazan, U. S. S. R.	X	X	X	X
		250	Delano, U. S. A.	X	X	X	X
		100	Vienna, Austria	X			
		250	Ejura, Ghana	X	X	X	X
		100	Delhi, India	X	X	X	X
		120	Tirana, Albania		X	X	X
		100/250	London, U. K.				X
11. 855	25. 31	25	"Radio Free Europe"	X	X	X	X
		50/100	Boston, U. S. A.	X	X	X	X
		50	Bocaué, Philippines	X	X	X	X
		50	Tirana, Albania	X	X	X	X
		50	Jeddah, Saudi Arabia	X	X	X	X
		50	Delhi, India	X	X	X	X
		120	Peking, China		X		
		100	Belgrade, Yugoslavia		X		
		100	Addis Ababa, Ethiopia				X
11. 860	25. 30	240/260	Gorkii/Krasnoyarsk, U.S.S.R.	X	X	X	X
		250	Ascension, Ascension Is.(BBC)	X	X	X	X
		100	London, U. K.	X	X	X	X
		100	Fredrikstad, Norway		X		X
		20/240	Tirana, Albania		X	X	
		20/240	Peking, China		X		
		100	Monte Carlo, Monaco		X	X	X
		50	Panchiao, Taiwan		X	X	
11. 865	25. 28	250	Ascension, Ascension Is.(BBC)	X	X	X	
		250	Dixon, U. S. A.	X	X	X	X
		100	Berne, Switzerland	X	X	X	X
		15/120	Moscow, U. S. S. R.	X			X
		100	Lubumbashi, Congo Rep.	X	X	X	X
		7.5	Recife, Brazil	X	X	X	X
		100/20	Delhi, India		X	X	X

25 m.

MHz	Metres	kW	Station and Country	M	M	S	N		
11.865	25.28	50	Havana, Cuba	X					
		120	Peking, China	X					
		100	Monte Carlo, Monaco		X	X	X		
		100	Poro, Philippines		X				
		20/240	Tirana, Albania		X	X			
		35	Colombo, Ceylon		X				
		25	Sukarnapura, Indonesia		X	X			
		100	London, U.K.				X		
		100	Hörby, Sweden				X		
		7.5/100	Limassol, Cyprus				X		
		20	Meyerton, South Africa				X		
		11.870	25.27	240/50	Kaunas/Khabarovsk, U.S.S.R.	X	X	X	X
				250	"Radio Liberty"	X	X	X	X
				100	Bombay, India	X	X	X	X
75	London, U.K.			X		X			
20/240	Tirana, Albania				X	X			
120	Peking, China				X				
250	Greenville, U.S.A.						X		
35	Tangier, Morocco						X		
35	Thessaloniki, Greece						X		
100	Vienna, Austria						X		
100	Addis Ababa, Ethiopia						X		
11.875	25.26			250	Meyerton, South Africa	X	X	X	X
				7.5	Salvador, Brazil	X	X	X	X
				15/120	Moscow, U.S.S.R.	X	X		X
		50	Delhi, India	X	X	X	X		
		100	Tokio, Japan	X	X	X	X		
		10/50	Karachi, Pakistan	X	X	X	X		
		100	Brussels, Belgium	X	X				
		100	Lagos, Nigeria				X		
		100	Monte Carlo, Monaco				X		
		120	Bucharest, Rumania				X		
		100/250	Bethany, U.S.A.				X		
		250	Monrovia, Liberia				X		
		60	Rome, Italy		X	X	X		
		250/500	Greenville, U.S.A.				X		
250	Delano, U.S.A.				X				
120	Tirana, Albania				X				
35	Tangier, Morocco				X				
50/100	Cairo, U.A.R. (Egypt)				X				
11.880	25.25	50/10	Shepparton, Australia	X	X	X	X		
		100	Hörby, Sweden		X				
		5	Mexico City, Mexico		X	X	X		
		240	Moscow, U.S.S.R.		X	X	X		
		20	Lourenço Marques, Mozambique		X		X		
		150	Berne, Switzerland		X	X	X		
		100	Warsaw, Poland				X		
		120	Tirana, Albania				X		
		100	London, U.K.				X		
		11.885	25.24	120	Bucharest, Rumania	X	X	X	X
				50	Karachi, Pakistan				X
				100	Delhi, India				X
				50	"Radio Free Europe"	X	X	X	X
				20	Buenos Aires, Argentina		X		

25 m.

MHz	Metres	kW	Station and Country	M	M	S	N	
11.885	25.24	100	Vatican City, Vatican State	X				
		10	Montevideo, Uruguay				X	
11.890	25.23	250	Bethany, U. S. A.	X		X		
		20	Limassol, Cyprus (BBC)	X				
		240	Riazan, U. S. S. R.	X	X	X	X	
		100	Berlin, Germany (E.)	X	X			
		100	London, U. K.	X	X			
		250/500	Greenville, U. S. A.			X	X	X
		50	Bocaué, Philippines			X	X	X
		100	Addis Ababa, Ethiopia	X	X		X	
		10/50	Karachi, Pakistan					X
		50	"Radio Free Europe"	X	X	X	X	
11.895	25.22	100/250	Berne, Switzerland	X				
		100	Delhi, India	X	X	X	X	
		20/240	Tirana, Albania	X				
		15/120	Moscow, U. S. S. R.	X	X	X		
		50	Karachi, Pakistan			X	X	
		50	Lisbon, Portugal	X	X	X		
		100	Vatican City, Vatican State	X	X	X		
		120	Peking, China	X				
		1	Valparaiso, Chile	X				
		100	Addis Ababa, Ethiopia	X	X	X		
11.900	25.21	250	Meyerton, South Africa	X	X	X	X	
		20	Montevideo, Uruguay	X			X	
		50/120	Sverdlovsk/Tbilisi, U. S. S. R.	X	X	X	X	
		100	Lagos, Nigeria	X	X			
		100	Sfax, Tunisia	X	X	X	X	
		100	Kajang, Malaysia	X	X	X		
		50/250	Cairo, U. A. R. (Egypt)	X				
		7.5/20	Djakarta, Indonesia		X			
		75	London, U. K.				X	
		50	Greenville, U. S. A.				X	
11.905	25.20	10/250	"Radio Free Europe"	X				
		100	Jülich, Germany (W.)	X	X		X	
		100/60	Rome, Italy	X	X	X	X	
		100	Limassol, Cyprus (BBC)	X	X	X	X	
		75	London, U. K.	X	X	X		
		100	Irkutsk, U. S. S. R.	X	X	X	X	
		100	Kajang, Malaysia	X				
		250	Kigali, Rwanda	X	X	X	X	
		120	Tirana, Albania	X	X			
		120	Bucharest, Rumania	X				
11.910	25.19	100	Monte Carlo, Monaco	X				
		100	Vatican City, Vatican State	X				
		50/250	Boston, U. S. A.			X	X	
		7.5	Djakarta, Indonesia			X	X	
		3	Mihhsiung, Taiwan			X	X	
		120	Peking, China				X	
		100	Addis Ababa, Ethiopia				X	
		50	Bangkok, Thailand	X	X	X	X	
		100	Budapest, Hungary	X	X	X	X	
		100	Quito, Ecuador	X	X	X	X	
11.910	25.19	20/240	Peking, China	X				
		100	Limassol, Cyprus (BBC)	X	X	X	X	
		100	Irkutsk, U. S. S. R.	X	X	X	X	

2.5 m.

MHz	Metres	kW	Station and Country	M	M	S	N
11.910	25.19	100	Delhi, India	X	X		X
		100	London, U.K.	X	X	X	X
		50	Greenville, U.S.A.	X			X
		120	Bucharest, Rumania			X	
		25	Lisbon, Portugal			X	
11.915	25.18	50/250	Cairo, U.A.R. (Egypt)			X	
		100	Sfax, Tunisia			X	
		100	Hörby, Sweden	X	X		X
		10	Porto Alegre, Brazil	X	X		X
		100/25	Quito, Ecuador	X	X	X	X
		100	Cairo, U.A.R. (Egypt)	X	X	X	X
		50	Orenburg, U.S.S.R.	X	X	X	X
		250	Monrovia, Liberia	X	X		X
		100	Lagos, Nigeria			X	
		250	"Radio Liberty"			X	
		20	Damascus, Syria			X	
		50	"Radio Free Europe"			X	
		100	Limassol, Cyprus (BBC)			X	
11.920	25.17	75	London, U.K.				X
		3	Concepcion, Paraguay				X X
		100	Bangkok, Thailand				X X
		250	Greenville, U.S.A.				X
		100	Moscow, U.S.S.R.	X	X	X	
		100	Paris, France	X	X	X	X
		20	Delhi, India			X	X
		250	Greenville, U.S.A.	X	X	X	X
		35	Okinawa, Ryukyu Is.			X	
		120	Bucharest, Rumania	X	X	X	X
11.925	25.16	100	Abidjan, Ivory Coast	X	X	X	X
		100	Berlin, Germany (E.)	X	X	X	X
		100	Monte Carlo, Monaco			X	X
		50	Bocau, Philippines			X	X
		250	Kuwait, Kuwait				X
		100	Jülich, Germany (W.)	X	X	X	X
		10	Sao Paulo, Brazil	X	X	X	X
		100	London, U.K.	X	X	X	X
		10	Lisbon, Portugal	X	X	X	X
		50	Tashkent, U.S.S.R.	X	X	X	X
11.930	25.15	100	Delhi, India			X	X
		100	Vienna, Austria	X	X	X	X
		50/250	Cairo, U.A.R. (Egypt)			X	
		20/240	Peking, China				X X
		100	Moscow, U.S.S.R.	X	X	X	X
		100	Sfax, Tunisia			X	
11.935	25.14	50/15	Poro, Philippines	X	X	X	X
		50	Brazzaville, Congo	X	X	X	X
		50	Havana, Cuba	X	X	X	X
		75	London, U.K.			X	
		100	Lisbon, Portugal	X	X	X	X
		100	Addis Ababa, Ethiopia	X	X		X
11.935	25.14	100	Tunis, Tunisia			X	
		50/250	Cairo, U.A.R. (Egypt)			X	
		120	Peking, China			X	
		30	"Radio Liberty"	X	X	X	X
		100	Brussels, Belgium			X	X

25 m.

MHz	Metres	kW	Station and Country	M	M	S	N
11.935	25.14	15/120	Moscow, U. S. S. R.			X	
		7.5	Curityba, Brazil			X	X
11.940	25.13	120/18	Bucharest, Rumania	X	X	X	X
		240	Krasnoyarsk, U. S. S. R.	X	X	X	X
		100/50	Tokio, Japan	X	X	X	X
		120	Tirana, Albania			X	
		50	Singapore, Malaya	X	X	X	
		100	Monte Carlo, Monaco	X	X	X	
		35	Tangier, Morocco			X	
		100	Cairo, U. A. R. (Egypt)			X	X
		1/10/50	Kuwait, Kuwait				X
		100	Hilversum, Netherlands			X	X
11.945	25.12	100	Jülich, Germany (W.)	X	X	X	X
		50	Sackville, Canada	X	X	X	X
		100	London, U. K.	X	X	X	X
		50	Sverdlovsk, U. S. S. R.	X	X	X	X
		20/240	Tirana, Albania	X	X		
		35	Minhsiung, Taiwan	X	X	X	X
		100	Limassol, Cyprus (BBC)			X	
		5	Encarnacion, Paraguay	X	X	X	
		250	Greenville, U. S. A.			X	
		25	Rio de Janeiro, Brazil	X	X	X	X
11.950	25.10	50	Riyadh, Saudi Arabia	X	X	X	X
		50	Monrovia, Liberia	X	X	X	X
		50	Dixon, U. S. A.			X	
		50	Sofia, Bulgaria	X	X	X	X
		50	Vladivostok, U. S. S. R.	X	X	X	X
		50	Kharkov, U. S. S. R.				
		25	Saigon-Cholon, S. Vietnam			X	
11.955	25.09	500	Greenville, U. S. A.	X	X	X	X
		75	Tebrau, Malaysia (BBC)	X	X	X	X
		100	Limassol, Cyprus (BBC)	X	X	X	
		5	Warsaw, Poland	X	X		X
		100	London, U. K.	X	X	X	X
		120	Serpukhov, U. S. S. R.			X	X
11.960	25.08	75	Singapore, Malaya			X	
		240	Serpukhov, U. S. S. R.	X	X	X	X
		100	Prague, Czechoslovakia	X	X	X	X
		50	Monrovia, Liberia	X	X		X
		35	Tangier, Morocco			X	X
		250	London, U. K.			X	X
11.965	25.07	15	Santiago, Chile			X	
		7.5	Thessaloniki, Greece				X
		100	Jülich, Germany (W.)	X	X	X	X
		5	Chihuahua, Mexico	X		X	X
		100	Bombay, India	X	X	X	
		200	Kazan, U. S. S. R.	X	X	X	X
		200	Dixon, U. S. A.			X	
		50	Malolos, Philippines	X	X	X	X
		50	Sao Paulo, Brazil	X	X	X	X
		20/240	Tirana, Albania	X			
11.965	25.07	50	Karachi, Pakistan			X	
		35	Okinawa, Ryukyu Is.			X	X
		100	Monte Carlo, Monaco			X	
		200	Tokio, Japan	X	X	X	

2.5 m

25 m.

MHz	Metres	kW	Station and Country	M	M	S	N		
11.965	25.07	120	Bucharest, Rumania			X			
		15/250	London, U.K.			X			
		100	Rome, Italy				X		
		50	Sackville, Canada				X		
		100	Cairo, U. A. R. (Egypt)				X		
		100	Brussels, Belgium				X		
		11.970	25.06	250	"Radio Liberty"	X	X	X	X
				100	Limassol, Cyprus (BBC)	X	X	X	
				50	Monrovia, Liberia	X	X	X	X
				50	Sofia, Bulgaria	X	X	X	X
50	"Radio Free Europe"			X					
4	Brazzaville, Congo			X					
50	Boston, U. S. A.			X			X		
100	London, U. K.				X	X	X		
240	Riazan, U. S. S. R.				X				
120	Bucharest, Rumania				X				
11.975	25.05	50	Tunis, Tunisia	X	X	X	X		
		3	Minhsiung, Taiwan			X	X		
		100	Karachi, Pakistan				X		
		15/120	Moscow, U. S. S. R.	X	X	X	X		
		20/250	Minhsiung, Taiwan	X	X	X			
		100	Grenada, Windward Is.	X	X	X	X		
		50	Brazzaville, Congo	X					
		50	Monrovia, Liberia	X	X	X	X		
		100	Paris, France	X		X	X		
		11.980	25.04	50/100	Cairo, U. A. R. (Egypt)	X		X	
50	Komsomolsk, U. S. S. R.			X		X			
11.985	25.03	120/240	Peking, China			X	X		
		50	Orcha, U. S. S. R.						
11.990	25.01	10/50	Karachi, Pakistan						
		100	Prague, Czechoslovakia						
12.000	25.00	50	Dyushambe, U. S. S. R.						
		10	Warsaw, Poland						
		100	Armavir, U. S. S. R.						
12.005	25.00	50/100	Cairo, U. A. R. (Egypt)						
12.010	24.98	50	Serpukhov, U. S. S. R.						
12.013	24.97	20/240	Peking, China						
12.015	24.97	50	Moscow, U. S. S. R.						
		20/240	Peking, China						
12.020	24.96	40	Riga, U. S. S. R.						
12.025	24.95	—	U. S. S. R.						
12.030	24.94	50	Tula, U. S. S. R.						
12.035	24.93	20/240	Peking, China						
12.040	24.92	75	London, U. K.						
		15/50	Vladivostok, U. S. S. R.						
12.045	24.91	50	Voronezh, U. S. S. R.						
12.049	24.90	20/240	Peking, China						
12.050	24.90	10/100	Lisbon, Portugal						
12.055	24.89	15/120	Moscow, U. S. S. R.						
		120/240	Peking, China						
12.060	24.88	50	Voronezh, U. S. S. R.						
12.070	24.86	100	Kiev, U. S. S. R.						
12.094	24.80	20/240	Peking, China						
12.095	24.80	75	London, U. K.						
12.100	24.79	15/120	Moscow, U. S. S. R.						

MHz	Metres	kW	Station and Country	M	M	S	N
12.182	24.63	15	London, U. K.				
12.370	24.28	10/100	Lisbon, Portugal				
13.810	21.73	—	Alma-Ata, U. S. S. R.				
14.260	21.05	—	U. S. S. R.				
14.280	21.01	—	U. S. S. R.				
14.480	20.70	—	U. S. S. R.				
14.602	20.56	—	Tirana, Albania				
14.670	20.45	—	Canadian Observatory				
14.860	20.19	15/120	Moscow, U. S. S. R.				
15.000	20.00	10	Fort Collins, U. S. A.				
15.015	19.98	20/240	Peking, China				
15.018	19.98	50/100	Hanoi, N. Vietnam				
15.030	19.96	120/240	Peking, China				
15.045	19.95	—	U. S. S. R.				
15.049	19.94	—	"Radio Liberty"				
15.055	19.93	50/100	Cairo, U. A. R. (Egypt)				
15.060	19.93	240	Peking, China				
15.070	19.92	75/100	London, U. K.				
15.080	19.90	20/240	Peking, China				
15.088	19.90	10	Grenada, Windward Is.				
15.090	19.88	50/100	Cairo, U. A. R. (Egypt)				
15.095	19.87	240	Peking, China				
15.100	19.87	10/50	Karachi, Pakistan	X	X	X	X
		15/120	Frunze, U. S. S. R.	X	X	X	X
		5/10	Grenada, Windward Is.	X	X	X	X
		20/240	Peking, China	X			
		100	Berlin, Germany (E.)	X	X	X	
15.105	19.86	100	Tokio, Japan	X	X	X	X
		100/250	London, U. K.	X	X	X	X
		7.5	Rio de Janeiro, Brazil	X	X	X	X
		100	Delhi, India	X		X	
		250	Ascension, Ascension Is.	X	X	X	X
		15/120	Irkutsk/Kiev, U. S. S. R.	X	X		
		10/50	Karachi, Pakistan	X		X	
		100	Grenada, Windward Is.	X		X	
		100	Boston, U. S. A.	X	X	X	
		50/250	"Radio Liberty"	X			
		7.5/100	Limassol, Cyprus (BBC)			X	
		50/100	Cairo, U. A. R. (Egypt)			X	
15.110	19.85	7.5	Wellington, New Zealand	X	X	X	X
		5	Mexico City, Mexico	X	X	X	X
		100	Kiev, U. S. S. R.	X	X	X	X
		100	Berlin, Germany (E.)	X	X		
		30	Quito, Ecuador	X		X	
		50/500	Greenville, U. S. A.	X			
		50/200	Dixon, U. S. A.			X	X
		10/50	Islamabad, Pakistan			X	
15.115	19.85	100	Quito, Ecuador	X	X	X	X
		15/120	Simferopol, U. S. S. R.			X	X
		10/250	"Radio Free Europe"	X	X	X	X
		100	Dakar, Senegal Rep.	X	X	X	X
		20/240	Peking, China	X		X	X
		100	Jeddah, Saudi Arabia	X		X	X
		250	Lisbon, Portugal			X	
15.120	19.84	100	Paris, France	X	X	X	X

19 m.

MHz	Metres	kW	Station and Country	M	M	S	N
15.120	19.84	100	Kiev, U. S. S. R.	X	X	X	X
		100	Vatican City, Vatican State	X	X	X	X
		100	Quito, Ecuador		X	X	X
		35	Colombo, Ceylon			X	X
		20	Warsaw, Poland	X			
		100	Djakarta, Indonesia		X	X	X
		100	Lagos, Nigeria	X			X
15.125	19.83	150	Berne, Switzerland		X		X
		10	Salvador, Brazil	X	X		X
		50	Taipei, Taiwan	X	X	X	X
		100	Delhi, India	X	X	X	X
		100	Lisbon, Portugal	X	X	X	X
		50/250	"Radio Liberty"		X		X
		100	Berlin, Germany (E.)				X
		50/250	Monrovia, Liberia		X		X
15.130	19.83	10/250	"Radio Free Europe"	X		X	
		15	Kherputchi, U. S. S. R.	X	X		
		10/250	"Radio Free Europe"		X		
		100	Delhi, India		X	X	X
		100	Quito, Ecuador	X			
		50	Sverdlovsk, U. S. S. R.	X	X	X	
		150	"Radio Liberty"	X	X	X	X
		50/250	Monrovia, Liberia	X	X	X	
		50	Boston, U. S. A.	X		X	X
		100	Lagos, Nigeria				X
15.135	19.82	50	Suwon, S. Korea	X	X		
		100	Addis Ababa, Ethiopia			X	
		100	Cairo, U. A. R. (Egypt)	X	X		X
		150	Berne, Switzerland	X	X		X
		50/100	Delhi, India	X	X	X	
		200	Tokio, Japan	X	X	X	X
		100	Teheran, Iran	X	X	X	X
		100	Vatican City, Vatican State	X	X		
		100	Addis Ababa, Ethiopia	X			
		20/240	Peking, China	X	X		
15.140	19.82	100/250	Tula, U. S. S. R.			X	
		20	London, U. K.	X	X	X	X
		240	Delhi, India		X	X	X
			Riazan/Petropavlovsk, U. S. S. R.	X	X	X	X
		10	Shepparton, Australia			X	X
		250	Ascension, Ascension Is.	X	X		
		100	Berlin, Germany (E.)		X	X	
		100	"Radio Free Europe"	X	X	X	X
15.145	19.81	10/250	Recife, Brazil	X	X	X	X
		100	Berlin, Germany (E.)				X
		50	Tula, U. S. S. R.		X		X
		150	Lima, Peru			X	X
15.150	19.80	100	Jeddah, Saudi Arabia	X	X	X	X
		240/50	Minsk/Omsk, U. S. S. R.	X	X	X	X
		100	Berlin, Germany (E.)				X
		1	Santiago, Chile	X	X	X	X
		10/100	Lisbon, Portugal		X	X	
15.155	19.80	5	Hue, S. Vietnam			X	
		100	Paris, France	X	X	X	X

19 m.

MHz	Metres	kW	Station and Country	M	M	S	N		
15.155	19.80	20	Delhi, India			X	X		
		25	Sao Paulo, Brazil	X	X	X	X		
		50	Monrovia, Liberia	X	X	X	X		
		50	Suwon, S. Korea			X	X		
		50	Tinang, Philippine Is.				X		
		100	Poro, Philippines	X	X	X			
		25/100	Vatican City, Vatican State			X	X		
		50	Havana, Cuba	X	X	X	X		
		10/100	Lagos, Nigeria	X	X	X	X		
		15	Lima, Peru	X					
		15.160	19.79	100	Paris, France	X	X	X	X
				20/100	Delhi, India	X	X	X	X
110	Bethany, U. S. A.			X	X	X	X		
50/500	Greenville, U. S. A.						X		
100	Ankara, Turkey			X	X	X	X		
50	Moscow, U. S. S. R.			X	X	X	X		
15/100	Budapest, Hungary			X	X	X	X		
50	Rhodes, Greece			X	X	X	X		
15.165	19.78	240/50	Sabboura, Syria	X	X	X	X		
		50	Copenhagen, Denmark	X	X	X	X		
		5	Fortaleza, Brazil	X	X	X	X		
		15	Poro, Philippines	X	X	X	X		
		100	Delhi, India	X	X				
15.170	19.78	20/240	Peking, China	X	X				
		100	Addis Ababa, Ethiopia			X	X		
		10/250	"Radio Free Europe"	X	X	X	X		
		50	Blagoveshchensk, U. S. S. R.	X	X	X	X		
		240	Lvov, U. S. S. R.			X			
		250	Lisbon, Portugal				X		
15.175	19.77	100	Berlin, Germany (E.)			X	X		
		100	Amman, Jordan	X	X	X	X		
		100	Fredrikstad, Norway	X	X	X	X		
		50/7.5	Malolos, Philippines	X			X		
		35/100	Poro, Philippines	X	X	X			
		100	Lvov, U. S. S. R.	X	X	X	X		
		50/100	Cairo, U. A. R. (Egypt)	X	X	X	X		
		250	Ascension, Ascension Is.(BBC)				X		
		100	Dakar, Senegal Rep.	X	X				
		100	Paris, France			X			
15.180	19.76	10/100	Delhi, India			X			
		100	London, U. K.	X	X	X	X		
		250	Ascension, Ascension Is.(BBC)	X	X	X	X		
		100	Hilversum, Netherlands	X	X	X	X		
		50/100	Sverdlovsk, Petropavlovsk, U. S. S. R.	X	X	X	X		
		10	Shepparton, Australia	X	X		X		
		5/100	Warsaw, Poland	X					
		100	Addis Ababa, Ethiopia			X			
15.185	19.76	100/250	Berne, Switzerland			X	X		
		20/240	Peking, China	X					
		20/100	Delhi, India	X					
		20/240	Peking, China	X			X		
		100	Pori, Finland	X	X	X	X		
		100	Paris, France			X	X		
		100	Delhi, India	X	X	X	X		

MHz	Metres	kW	Station and Country	M	M	S	N		
15.185	19.76	1/50	Quito, Ecuador				X		
		50	Ashkhabad, U. S. S. R.	X	X	X	X		
		25/100	Vatican City, Vatican State			X	X		
		7.5/50	Damascus, Syria	X					
		120	Bucharest, Rumania		X		X		
		10/50	Karachi, Pakistan		X	X			
		15.190	19.75	50	Sackville, Canada	X	X	X	X
				100	Delhi, India	X	X	X	X
				100	Paris, France		X	X	X
				50	Dixon, U. S. A.				X
50	Ivanofrankovsk, U. S. S. R.			X	X	X	X		
50	Brazzaville, Congo			X	X	X	X		
100	Munich, Germany (W.)				X				
100	Addis Ababa, Ethiopia				X				
50	Karachi, Pakistan				X				
10/250	Tema, Ghana				X				
15.195	19.74	250	London, U. K.	X	X	X	X		
		100	Tokio, Japan	X	X	X	X		
		35	Tangier, Morocco	X	X	X	X		
		250	Monrovia, Liberia				X		
		20/240	Peking, China	X	X	X	X		
		50	Blagoveshchensk, U. S. S. R.	X	X	X	X		
		100	Munich, Germany (W.)		X				
		100	Limassol, Cyprus (BBC)		X				
		15.200	19.74	250	London, U. K.	X		X	X
				100	Paris, France	X	X	X	
120	Bucharest, Rumania						X		
20/240	Peking, China				X	X	X		
50	Algiers, Algeria			X	X	X	X		
25/100	Vatican City, Vatican State				X	X	X		
50	Kalatch, U. S. S. R.			X	X	X	X		
50	Berlin, Germany (E.)				X	X			
35/100	Tangier, Morocco						X		
10/50	Karachi, Pakistan						X		
15.205	19.73	100/250	Mexico City, Mexico				X		
		100/100	London, U. K.		X	X			
		500	Delhi, India		X	X	X		
		100	Greenville, U. S. A.	X	X	X	X		
		35/100	Jülich, Germany (W.)	X	X	X	X		
		20/240	Tangier, Morocco		X	X	X		
		10/50	Peking, China	X					
		120	Karachi, Pakistan		X	X			
		120	Bucharest, Rumania				X		
		100	Moscow, U. S. S. R.	X	X	X	X		
15.210	19.72	100	Vienna, Austria	X	X	X	X		
		25/100	Vatican City, Vatican State				X		
		50	Poro, Philippines	X	X	X	X		
		100	Berlin, Germany (E.)		X				
		100	Okinawa, Ryukyu Is.		X				
		120	Bucharest, Rumania	X	X				
		5/100	Warsaw, Poland		X				
		15.215	19.72	100	Sfax, Tunisia				X
				10/100	Delhi, India				X
				10/250	"Radio Free Europe"	X	X	X	X
10/40/100	Warsaw, Poland				X	X	X		

MHz	Metres	kW	Station and Country	M	M	S	N
15.215	19.72	100	Moscow, U. S. S. R.			X	
		50	Boston, U. S. A.	X	X		X
		120	Bucharest, Rumania			X	
15.220	19.71	100	Delhi, India				X
		250	Meyerton, South Africa	X	X	X	X
		240	Riga, U. S. S. R.	X	X	X	X
		10/100	Shepparton, Australia	X	X	X	X
		100	Hilversum, Netherlands			X	X
		260/300	Bonaire, Netherland Antilles	X	X	X	X
15.225	19.70	100	Beirut, Lebanon				X
		250	"Radio Liberty"	X	X	X	X
		50/500	Greenville, U. S. A.			X	X
		1	Salvador, Brazil	X	X	X	X
		18/120	Bucharest, Rumania			X	X
		100	Berlin, Germany (E.)			X	
		35/100	Tangier, Morocco				X
		240	Voronezh, U. S. S. R.	X	X	X	
15.230	19.70	100/250	London, U. K.				X
		240	Voronezh, U. S. S. R.	X	X	X	X
		50	Havana, Cuba	X	X	X	X
		10/100	Shepparton, Australia	X	X	X	
		100	Colombo, Ceylon	X	X	X	X
		20/240	Peking, China			X	X
		10/50	Karachi, Pakistan			X	
15.235	19.69	5	Melo, Uruguay				X
		100/250	London, U. K.				X
		250	Ascension, Ascension Is.(BBC)	X	X	X	X
		100	Delhi, India			X	X
		100	Tokio, Japan	X	X	X	X
		250/500	Greenville, U. S. A.	X	X	X	X
15.240	19.69	100	Vinnitsa, U. S. S. R.	X	X	X	
		5	Bangkok, Thailand				X
		100	Addis Ababa, Ethiopia				X
		100	Hörby, Sweden	X	X	X	X
		50	Dixon, U. S. A.	X	X	X	X
		50	Berlin, Germany (E.)	X	X	X	X
		10/100	Shepparton, Australia	X	X	X	X
		100	Belgrade, Yugoslavia	X	X	X	X
		20/240	Peking, China			X	X
		50/100	Cairo, U. A. R. (Egypt)	X			
15.245	19.68	50	Sverdlovsk, U. S. S. R.	X	X		
		100	Paris, France	X	X	X	X
		100/250	London, U. K.				X
		100	Kinshasa, Congo Rep.	X	X	X	X
		50	Dixon, U. S. A.	X	X	X	X
		30/100	Sofia, Bulgaria			X	
		100	Leningrad, U. S. S. R.	X	X	X	X
		10	Belem, Brazil	X	X	X	X
		35/100	Tangier, Morocco	X	X	X	X
		250	Meyerton, South Africa	X	X	X	X
15.250	19.67	50/500	Greenville, U. S. A.	X	X		
		100	Julich, Germany (W.)	X	X	X	X
		100	Delhi, India	X	X		
		35/50	Poro, Philippines			X	X
		250	Greenville, U. S. A.	X	X	X	X

19 m

MHz	Metres	kW	Station and Country	M	M	S	N
15.250	19.67	50	Tangier, Morocco	X	X	X	X
		18/120	Bucharest, Rumania	X	X	X	X
		50/260	Bonaire, Netherland Antilles	X			
		50	Kazan, U. S. S. R.	X	X		
		100	Djakarta, Indonesia	X			
15.255	19.67	35/100	Honolulu, Hawaii Is.				
		250	"Radio Free Europe"	X	X	X	X
		25/100	Vatican City, Vatican State				X
		100	Lagos, Nigeria	X	X	X	X
		100	Berlin, Germany (E.)	X	X		
		20/240	Peking, China	X	X		
15.260	19.66	15	Garovka, U. S. S. R.	X			
		50	Phnom Penh, Cambodia	X			
		100/250	London, U. K.	X	X	X	X
		250	Ascension, Ascension Is.(BBC)	X	X	X	X
		7.5/100	Limassol, Cyprus (BBC)	X		X	X
		50/250	"Radio Liberty"			X	X
		10	Tokio, Japan	X	X	X	X
		120	Kazan, U. S. S. R.	X	X	X	
		50	Berlin, Germany (E.)	X	X		
		50/500	Greenville, U. S. A.	X	X		
15.265	19.65	50/100/140	Cairo, U. A. R. (Egypt)				X
		100	Gorki, U. S. S. R.	X	X	X	X
		20/240	Peking, China			X	X
		250	Monrovia, Liberia				X
		50	Sao Paulo, Brazil	X		X	X
		50	Boston, U. S. A.		X		
15.270	19.65	20/100	Delhi, India	X			
		10/100	Kabul, Afghanistan	X		X	X
		1/7.5	Port au Prince, Haiti	X			
		50	Havana, Cuba	X	X	X	X
		100	Moscow, U. S. S. R.	X	X	X	X
		100	Tangier, Morocco	X	X	X	X
		20/240	Peking, China	X	X	X	X
15.275	19.64	250	Darwin, Australia				X
		100	Addis Ababa, Ethiopia				X
		10/250	"Radio Free Europe"			X	
		100	Kabul, Afghanistan				X
		50	Berlin, Germany (E.)	X			
		100	Delhi, India				X
15.280	19.63	40/100	Warsaw, Poland	X	X	X	X
		50	Omsk, U. S. S. R.	X	X	X	X
		100	Jülich, Germany (W.)	X	X	X	X
		10	Montevideo, Uruguay	X	X	X	X
		120	Bucharest, Rumania	X			
		100	Hörby, Sweden	X			
		500	Greenville, U. S. A.	X	X	X	X
15.285	19.63	100	Kajang, Malaysia	X	X	X	X
		100/250	London, U. K.	X			
		100	Beirut, Lebanon	X			
		20/240	Peking, China	X			X
		3	Taipei, Taiwan	X	X		X
		3	Minhsiung, Taiwan			X	
50	Omsk, U. S. S. R.				X		
100/250	London, U. K.	X	X	X	X		

19 MW.

MHz	Metres	kW	Station and Country	M	M	S	N
15.285	19.63	35	Colombo, Ceylon	X	X	X	X
		25/100	Vatican City, Vatican State	X	X	X	X
		15	Bucharest, Rumania	X	X	X	X
		50	Irkutsk, U. S. S. R.	X	X	X	X
		100	Prague, Czechoslovakia	X	X	X	X
		10	Rio de Janeiro, Brazil				X
		100	Beirut, Lebanon			X	
		250	Ejura, Ghana	X	X	X	X
		50/260	Bonaire, Netherland Antilles	X			
		10	Havana, Cuba				
15.290	19.62	50/500	Greenville, U. S. A.		X		
		20	Sabboura, Syria	X	X	X	X
		50/250	"Radio Liberty"			X	X
		10	Buenos Aires, Argentina				X
		20/100	Delhi, India	X	X	X	X
		100	Tangier, Morocco	X	X	X	X
		35/50	Poro, Philippines	X	X	X	X
		20/240	Peking, China	X	X		
		250	London, U. K.	X	X		
		15.295	19.61	100	Paris, France		
240	Voronezh, U. S. S. R.			X	X	X	X
50	Tangier, Morocco			X	X		X
10	Rio de Janeiro, Brazil					X	
100	Lourenço Marques, Mozambique						X
15.300	19.61	10/100	Tebrau, Malaysia (BBC)				X
		100	London, U. K.	X	X	X	X
		10/50	Bocau, Philippines	X	X	X	X
		100	Cairo, U. A. R. (Egypt)			X	X
		100/200	Tokio, Japan	X	X	X	X
		50	Murmansk, U. S. S. R.			X	
		10/100	Havana, Cuba	X	X		
		100	Jülich, Germany (W.)	X	X	X	X
		20/240	Peking, China			X	
		120	Bucharest, Rumania			X	X
15.305	19.60	100/150	Berne, Switzerland	X	X	X	X
		100	Voronezh, U. S. S. R.	X	X	X	X
		120	Bucharest, Rumania			X	
15.310	19.60	100	Hörby, Sweden	X		X	X
		100/250	London, U. K.			X	X
		7.5	Tebrau, Malaysia (BBC)	X	X	X	X
		7.5/100	Limassol, Cyprus (BBC)	X	X	X	
		100	Munich, Germany (W.)				X
		50	Delhi, India	X	X	X	X
		100	Rome, Italy			X	X
		100	Prague, Czechoslovakia	X	X	X	X
		100	Conakry, Guinea Rep.	X	X	X	X
		50	Sofia, Bulgaria	X	X	X	X
15.315	19.59	100	Tangier, Morocco	X	X		X
		100	Novosibirsk, U. S. S. R.	X	X	X	
		10/50	Karachi, Pakistan	X	X	X	
		10/100	Lisbon, Portugal	X	X	X	X
		100	Addis Ababa, Ethiopia	X	X	X	X
		50/500	Greenville, U. S. A.			X	
		100	Hörby, Sweden				X

19 m.

MHz	Metres	kW	Station and Country	M	M	S	N
15.315	19.59	100	Berlin, Germany (E.)			X	
		100	Julich, Germany (W.)	X	X	X	
		20/240	Peking, China			X	
		20/100	Brussels, Belgium			X	
15.320	19.58	35/100	Tangier, Morocco	X	X	X	
		50	Sackville, Canada	X	X	X	X
		100	Kazan/Krasnoyarsk, U.S.S.R.	X	X	X	X
		10/100	Shepparton, Australia	X	X	X	X
		50/250	Monrovia, Liberia	X	X	X	
		50/100	Hilversum, Netherlands	X	X	X	
		7.5	Djakarta, Indonesia	X	X		
		3	Minhsiung, Taiwan	X			
15.325	19.58	50	Quito, Ecuador				X
		50	Sackville, Canada	X	X	X	X
		50	Karachi, Pakistan	X	X		X
		250	Monrovia, Liberia				X
		50/100	Quito, Ecuador	X	X	X	X
		100	Tangier, Morocco	X	X	X	X
		1	Sao Paulo, Brazil	X	X	X	X
		100	Kaunus, U. S. S. R.	X	X	X	X
		100	Vienna, Austria				X
		3	Taipei, Taiwan	X	X	X	X
15.330	19.57	120	Bucharest, Rumania			X	
		110	Bethany, U. S. A.	X	X	X	X
		100	Sverdlovsk, U. S. S. R.	X	X	X	X
		50/500	Greenville, U. S. A.				X
		50	Tangier, Morocco	X	X		
		50	Karachi, Pakistan	X			
		7.5/100	Limassol, Cyprus	X	X		
		10/200	Saigon-Cholon, S. Vietnam	X			
		50/100	Rome, Italy			X	X
		100	Lagos, Nigeria	X	X	X	X
15.335	19.56	50	Karachi, Pakistan	X	X	X	X
		100	Delhi, India			X	X
		100	Madras, India	X			
		7.5	Porto Alegre, Brazil	X	X	X	X
		20/100	Brussels, Belgium	X	X	X	
		50	Tangier, Morocco	X	X	X	
		50	Tbilisi, U. S. S. R.	X			
15.340	19.56	10/100	Delhi, India				X
		5/7.5	Athens, Greece	X	X	X	
		50	"Radio Liberty"	X	X	X	X
		50/260	Bonaire, Netherland Antilles				X
		100	Lisbon, Portugal			X	X
		50	Karachi, Pakistan			X	
		100	Rome, Italy	X	X	X	X
15.345	19.55	50/100	Berlin, Germany (E.)			X	X
		50	Sverdlovsk, U. S. S. R.	X			
		50/100	Cairo, U. A. R. (Egypt)				X
		7.5	Athens, Greece			X	X
		25	Panchiao, Taiwan				X
		25	Taipei, Taiwan	X	X		
		15	Pororo, Philippines	X	X	X	X
		50	Tangier, Morocco	X	X	X	X
		100	Fredrikstad, Norway	X	X	X	X

19 m.

MHz	Metres	kW	Station and Country	M	M	S	N
15.345	19.55	50	Buenos Aires, Argentina	X			X
		10/50	Karachi, Pakistan	X	X		
		10/100	Lisbon, Portugal				X
15.350	19.54	100/240	Havana, Cuba		X		
		100	Vologda, U. S. S. R.	X	X	X	X
		100	Beirut, Lebanon				X
		6	Junglinster, Luxembourg	X	X	X	X
		50/260	Bonaire, Netherland Antilles	X	X	X	X
15.355	19.53	20/240	Peking, China			X	X
		10/250	"Radio Free Europe"	X	X	X	X
		50	Boston, U. S. A.	X	X	X	
15.360	19.53	10	Montevideo, Uruguay			X	
		50	Karachi, Pakistan	X	X	X	X
		240	Moscow, U. S. S. R.	X	X	X	X
		250	Meyerton, South Africa	X	X	X	X
		250	Monrovia, Liberia	X	X	X	X
15.365	19.52	50	Tangier, Morocco	X	X	X	X
		20/240	Peking, China	X	X		
		100	Lagos, Nigeria				X
		100	Okinawa, Ryukyu Is.	X			X
		35	Poro, Philippines				X
		50	Malolos, Philippines			X	X
		100	Prague, Czechoslovakia	X	X	X	
		50	Vinnitsa, U. S. S. R.	X			
		50	Havana, Cuba	X	X	X	X
		100	Meyerton, South Africa	X	X		
		100	Tripoli, Libya			X	
		50	Santa Cruz de Teneriffe, Canary Is.	X			X
15.370	19.52	50	Las Mesas, Canary Is.			X	X
		20/240	Peking, China			X	
		10/200	Saigon-Cholon, S. Vietnam	X	X	X	
		10	Rio de Janeiro, Brazil	X	X	X	X
		250	Monrovia, Liberia			X	X
		250	"Radio Liberty"	X	X	X	X
		100	Boston, U. S. A.				X
		50/500	Greenville, U. S. A.				X
		100	Taipei, Taiwan				X
		100	Sverdlovsk, U. S. S. R.	X	X		
15.375	19.51	100	Rome, Italy				X
		15	Okinawa, Ryukyu Is.			X	X
		100	Leningrad/Komsomolsk, U. S. S. R.				
		7.5/100	Limassol, Cyprus (BBC)	X	X	X	X
15.380	19.50	100/250	London, U. K.			X	
		100	Vienna, Austria				X
		100	Paris, France	X	X		
		50	"Radio Liberty"	X	X	X	X
		50/500	Greenville, U. S. A.				X
		250	Kigali, Rwanda	X	X	X	X
		15	Bucharest, Rumania			X	X
15.385	19.49	10/50	Karachi, Pakistan			X	X
		50	Astrakhan, U. S. S. R.	X	X	X	
		50	Bocaue, Philippines	X	X	X	X
		20/240	Peking, China			X	X

19 m.

MHz	Metres	kW	Station and Country	M	M	S	N
15.385	19.49	240	Gorki, U. S. S. R.	X	X	X	X
15.390	19.49	100/250	London, U. K.	X	X	X	X
		100	Berlin, Germany (E.)				X
		10	Shepparton, Australia	X		X	
15.395	19.49	120	Tashkent, U. S. S. R.	X	X	X	X
		50/200	Dixon, U. S. A.				X
		500	Greenville, U. S. A.	X	X	X	X
		100	Okinawa, Ryukyu Is.	X	X	X	X
		100	Meyerton, South Africa				X
		50	Poro, Philippines			X	
		10	Caracas, Venezuela	X	X		
15.400	19.48	250	Ascension, Ascension Is.(BBC)	X	X	X	X
		100	Addis Ababa, Ethiopia	X	X	X	X
		500	Greenville, U. S. A.	X	X	X	X
		50	Irkutsk, U. S. S. R.			X	X
		100	Vienna, Austria	X	X	X	
		100	Baghdad, Iraq	X	X	X	X
		50/100	Rome, Italy			X	X
		50/500	Tirana, Albania			X	X
15.405	19.48	100	Sverdlovsk, U. S. S. R.	X	X	X	X
		100	Julich, Germany (W.)	X	X	X	X
		50/500	Greenville, U. S. A.			X	
		250	Monrovia, Liberia	X	X		
		50/500	Tirana, Albania	X	X		
		100	Kabul, Afghanistan			X	
15.410	19.47	250	Delano, U. S. A.	X	X		X
		250	Greenville, U. S. A.	X	X	X	X
		100	Julich, Germany (W.)	X	X	X	X
		100	Vienna, Austria	X	X	X	X
		100	Addis Ababa, Ethiopia			X	
		100	Poro, Philippine Is.			X	X
		50	Malolos, Philippine Is.	X			
		50/500	Tirana, Albania			X	X
		20/240	Peking, China			X	X
		50/100	Rome, Italy			X	X
		100	Moscow, U. S. S. R.			X	X
		50	"Radio Liberty"	X			
		10/50	Dacca, Pakistan			X	
15.415	19.46	1	Ribeiro, Preto, Brazil	X	X	X	X
		100	Frunze, U. S. S. R.			X	X
		100	Kiev, U. S. S. R.	X	X		
		250	Greenville, U. S. A.	X	X	X	X
		100	Kabul, Afghanistan			X	X
		100	Dakar, Senegal Rep.				X
		20/240	Peking, China	X	X		
		100	Julich, Germany (W.)			X	
		50	Havana, Cuba				X
15.420	19.46	100	Limassol, Cyprus (BBC)	X	X	X	X
		100	Madrid, Spain	X	X	X	X
		15/120	Moscow, U. S. S. R.			X	
15.425	19.45	100	Hilversum, Netherlands	X	X	X	X
		100	Addis Ababa, Ethiopia			X	X
		240	Moscow, U. S. S. R.	X	X	X	X
		50	Perth, Australia	X	X	X	X
		50	Athens, Greece			X	

19 m.

MHz	Metres	kW	Station and Country	M	M	S	N
15.430	19.44	50/250	Greenville, U. S. A.	X	X	X	X
		50	Suwon, S. Korea		X	X	X
		100	Berne, Switzerland	X	X	X	X
		50	Delhi, India	X	X	X	X
		100	Vienna, Austria	X	X	X	X
15.435	19.44	15	Moscow, U. S. S. R.		X	X	
		100	London, U. K.	X	X		X
		7.5	Tebrau, Malaysia (BBC)	X	X	X	X
		7.5/100	Limassol, Cyprus (BBC)		X		X
		250	Bonaire, Netherlands Antilles				X
		100	Jülich, Germany (W.)	X	X	X	X
		20/240	Peking, China	X	X	X	X
		50	Dar es Salaam, Tanzania	X	X	X	X
		250	Ascension, Ascension Is.(BBC)		X		
		15	Adamovka Bachk, U. S. S. R.	X	X	X	
15.440	19.43	250	Kigali, Rwanda		X	X	
		50	Bocaua, Philippines	X	X		X
		3/10	Poru, Philippines				X
		120/100	Riazan/Tashkent, U. S. S. R.	X	X	X	X
		20/100	Boston, U. S. A.	X	X	X	X
15.445	19.42	100	Beirut, Lebanon	X		X	
		10	Brazilia, Brazil		X		
		15	Bucharest, Rumania		X	X	
		10	Brazilia, Brazil	X		X	X
		50	"Radio Liberty"	X	X	X	
		250	Monrovia, Liberia	X	X	X	X
		100	Berlin, Germany (E.)	X		X	
		200	Tokio, Japan				X
		50	Brazzaville, Congo	X	X	X	X
		100	Paris, France				X
15.450	19.42	50	Ulan Bator, Mongolia		X	X	
		100	Prague, Czechoslovakia	X			
		100	Hörby, Sweden		X		
		50	Serpukhov, U. S. S. R.	X	X	X	X
		50/100	Berlin, Germany (E.)		X	X	X
		10	Karachi, Pakistan	X	X		
		7.5/100	Dacca, Pakistan				X
		100	Moscow, U. S. S. R.				
		50	Kalinin, U. S. S. R.				
		50/100	Cairo, U. A. R. (Egypt)				
15.480	19.38	50	Orenburg, U. S. S. R.				
		20/240	Peking, China				
15.490	19.37	50	Orenburg, U. S. S. R.				
15.500	19.36	7.5/100	Dacca, Pakistan				
15.505	19.35	50	Kiev, U. S. S. R.				
15.517	19.34	20/240	Peking, China				
15.520	19.34	20/240	Peking, China				
15.523	19.33	10/50	Karachi, Pakistan				
15.525	19.33	120/240	Pyongyang, N. Korea				
15.540	19.32	10/250	"Radio Free Europe"				
15.550	19.29	20/240	Peking, China				
15.600	19.23	20/240	Peking, China				
15.605	19.18	—	U. S. S. R.				
15.670	19.17	20/240	Peking, China				
15.710	19.10	20/240	Peking, China				

19 m.

MHz	Metres	kW	Station and Country	M	M	S	N
15.780	19.02	15	Moscow, U. S. S. R.				
15.792	19.02	—	Tangier, Morocco				
15.913	18.87	15	London, U. K.				
16.240	18.49	15	U. S. S. R.				
16.250	18.44	15	Moscow, U. S. S. R.				
16.342	18.38	20/240	Peking, China				
16.435	18.25	20/240	Peking, China				
17.000	17.65	—	U. S. S. R.				
17.170	17.48	—	Havana, Cuba				
17.220	17.43	—	China				
17.310	17.33	—	U. S. S. R.				
17.520	17.11	—	U. S. S. R.				
17.535	17.07	20/240	Peking, China				
17.610	17.04	10/100	Delhi, India				
17.620	17.04	10/250	"Radio Free Europe"				
17.635	17.03	20/240	Peking, China				
17.640	17.02	20/240	Peking, China				
17.650	17.00	20/240	Peking, China				
17.655	16.99	15/100	Cairo, U. A. R. (Egypt)				
17.662	16.98	—	China				
17.670	16.98	50/100	Cairo, U. A. R. (Egypt)				
17.675	16.98	20/240	Peking, China				
17.680	16.97	240	Peking, China				
17.690	16.96	50/100	Cairo, U. A. R. (Egypt)				
17.695	16.95	75/100	London, U. K.				
17.700	16.95	50	Krasnoyarsk/Dyushambe, U. S. S. R.	X	X	X	X
		20/240	Peking, China				X
		100	Berlin, Germany (E.)	X	X	X	X
		100	Tripoli, Libya	X	X		
17.705	16.94	250	London, U. K.	X	X	X	X
		100	Munich, Germany (W.)			X	X
		7.5	Sao Paulo, Brazil	X			
		250	Monrovia, Liberia				X
		100	Havana, Cuba	X	X	X	X
		35/100	Tangier, Morocco	X	X	X	
		100	Jülich, Germany (W.)			X	X
		20/240	Peking, China			X	
		50/200	Delano, U. S. A.	X			
		50	Greenville, U. S. A.	X	X	X	X
		100	Bombay, India			X	X
		100	Delhi, India	X	X		
		50/100	Moscow, U. S. S. R.			X	X
17.710	16.94	100	Moscow, U. S. S. R.	X	X	X	X
		500	Greenville, U. S. A.	X	X	X	X
		100	Lagos, Nigeria				X
		50	Sackville, Canada		X		
		50	Phnom Penh, Cambodia		X		
17.715	16.94	250	London, U. K.	X	X	X	X
		20/100	Delhi, India	X	X	X	X
		100	Havana, Cuba	X	X	X	X
		100	Vienna, Austria	X	X	X	X
		20/240	Peking, China			X	X
		10/100	Shepparton, Australia	X	X	X	X
		100	Beirut, Lebanon	X			

16 m

MHz	Metres	kW	Station and Country	M	M	S	N
17.715	16.94	100	Prague, Czechoslovakia	X			
		50	Riga, U. S. S. R.			X	
17.720	16.93	100	Kazan, U. S. S. R.	X	X	X	X
		50	Taipei, Taiwan	X	X	X	X
		50	Red Lion, U. S. A.	X	X	X	X
		100	Paris, France			X	X
			"Radio Liberty"	X	X	X	X
		50	Sackville, Canada			X	
		50	Brazzaville, Congo	X			
17.725	16.93	10/250	"Radio Free Europe"	X	X	X	X
		100	Tokio, Japan	X	X	X	X
		100	Starobelsk, U. S. S. R.				X
		1.5	Sao Jose, Brazil	X			
		100	Lisbon, Portugal	X			
		100	Cairo, U. A. R. (Egypt)				X
17.730	16.92	100	Paris, France	X	X	X	X
		50	Serpukhov/Irkutsk, U. S. S. R.	X	X	X	X
		100	Tananarive, Madagascar			X	X
		100	Berlin, Germany (E.)			X	
		100	Vienna, Austria			X	X
		100	Vatican City, Vatican State	X	X		
		20/240	Peking, China	X			
		50/100	Boston, U. S. A.	X	X	X	
17.735	16.92	100	Paris, France			X	X
		50	Poros, Philippines	X	X	X	X
		50	"Radio Free Europe"	X	X	X	X
		20/240	Peking, China			X	X
		100	Lagos, Nigeria	X	X		X
		15/120	Moscow, U. S. S. R.	X	X		
		40/100	Warsaw, Poland			X	X
17.740	16.91	100	London, U. K.	X	X	X	X
		250	Ascension, Ascension Is.(BBC)				X
		100	Paris, France	X	X	X	X
		50	Novosibirsk, U. S. S. R.	X		X	X
		120	Bucharest, Rumania	X			
		100	Lisbon, Portugal	X	X	X	X
		250	Monrovia, Liberia	X	X	X	
		20	Delhi, India	X	X	X	X
		100	Rome, Italy			X	
17.745	16.91	50	Karachi, Pakistan	X	X	X	X
		100	Paris, France			X	X
		240	Kursk, U. S. S. R.	X	X	X	X
		20/240	Peking, China	X	X	X	X
		7.5	Athens, Greece			X	
17.750	16.90	250	Kuwait, Kuwait			X	X
		100	Vienna, Austria			X	
		500	"Radio Liberty"	X	X	X	X
		110	Bethany, U. S. A.			X	X
		50	Havana, Cuba				X
		100	Hilversum, Netherlands			X	
		50/100	Cairo, U. A. R. (Egypt)				X
		100	Beirut, Lebanon			X	X
		18/120	Bucharest, Rumania			X	X
		50	Poros, Philippines	X	X	X	X
		50	Kursk, U. S. S. R.			X	

16 m.

MHz	Metres	kW	Station and Country	M	M	S	N
17.755	16.90	50	Krasnoyarsk, U. S. S. R.	X	X	X	X
		100	Berlin, Germany (E.)	X	X	X	X
		50	Malolos, Philippine Is.			X	X
		100	Cairo, U. A. R. (Egypt)	X		X	
		50	Boston, U. S. A.	X	X		
		100	Fredrikstad, Norway			X	
17.760	16.89	100	Vienna, Austria			X	
		50/100/250	"Radio Liberty"	X	X	X	X
		50	Boston, U. S. A.			X	X
		100	Shepparton, Australia				X
		1	Monrovia, Liberia			X	X
		10/50	Karachi, Pakistan	X			
17.765	16.89	20/100	Delhi, India			X	
		15/120	Moscow, U. S. S. R.			X	X
		100	Paris, France	X	X	X	X
		40	Warsaw, Poland			X	
		100	Tula, U. S. S. R.	X	X	X	X
		250	Kigali, Rwanda	X	X	X	X
17.770	16.88	100	Delano, U. S. A.	X		X	X
		100	Jülich, Germany (W.)	X		X	
		250	Monrovia, Liberia			X	
		50	Tinang, Philippines	X	X	X	
		7.5	Wellington, New Zealand	X	X	X	X
		100	Hörby, Sweden				X
17.775	16.88	50	Karachi, Pakistan	X	X	X	X
		10/250	"Radio Free Europe"	X	X	X	X
		60/100	Rome, Italy	X	X	X	X
		50	Riazan, U. S. S. R.			X	
		240	Riazan/Khabarovsk, U.S.S.R.	X	X	X	X
		50/500	Greenville, U. S. A.			X	X
17.780	16.87	100	Vienna, Austria				X
		110	Bethany, U. S. A.			X	
		10/50	Karachi, Pakistan	X			
		120	Bucharest, Rumania			X	
		120	Lvov, U. S. S. R.	X	X	X	X
		20/240	Peking, China	X		X	X
17.785	16.87	50	Taipei, Taiwan	X	X	X	X
		250	Monrovia, Liberia	X		X	X
		500	Greenville, U. S. A.	X	X	X	
		100	Lagos, Nigeria			X	
		50/500	"Radio Liberty"	X	X		
		50	Frunze, U. S. S. R.	X	X	X	X
17.790	16.86	50	Brazzaville, Congo	X	X	X	X
		100	Cairo, U. A. R. (Egypt)	X	X	X	X
		140	Bethany, U. S. A.			X	
		100	Tokio, Japan	X	X	X	X
		20/240	Peking, China			X	
		250	London, U. K.	X	X	X	X
17.795	16.86	50	Moscow, U. S. S. R.	X	X	X	X
		110	Bethany, U. S. A.			X	
		50/500	Greenville, U. S. A.				X
		100	Jülich, Germany (W.)	X	X	X	
		250	Meyerton, South Africa	X			
		20/240	Peking, China	X	X	X	X
		60/100	Rome, Italy	X	X	X	X

MHz	Metres	kW	Station and Country	M	M	S	N
17.795	16.86	100	Serpukhov, U. S. S. R.	X	X	X	X
		3/15	Budapest, Hungary	X			X
		250	Meyerton, South Africa		X	X	X
		50/500	Greenville, U. S. A.				X
		150	Berne, Switzerland				X
17.800	16.85	100/250	London, U. K.	X	X	X	X
		50	Karachi, Pakistan	X	X	X	X
		50	Delhi, India	X	X	X	X
		50	Sofia, Bulgaria		X	X	
		100	Moscow, U. S. S. R.			X	X
		100	Tangier, Morocco		X	X	X
		100	Hörby, Sweden	X	X	X	
		250	"Radio Free Europe"		X		
		250	Monrovia, Liberia				X
		250	Greenville, U. S. A.	X	X	X	X
		30/100	Warsaw, Poland	X	X		
		50/200	Delano, U. S. A.		X		
17.805	16.85	50/200	Dixon, U. S. A.	X			
		250	Meyerton, South Africa	X		X	X
		100	Tallin/Irkutsk, U. S. S. R.	X	X	X	X
		10/250	"Radio Free Europe"	X	X	X	X
		50/500	Greenville, U. S. A.	X	X		
17.810	16.84	20/240	Peking, China		X		
		100/250	London, U. K.	X	X	X	X
		3/50	Bocaue, Philippines	X	X	X	X
		2/10	Poro, Philippines	X			
		100	Hilversum, Netherlands	X	X	X	X
		20/240	Peking, China		X	X	X
		50/250	Kuwait, Kuwait (Testing)				X
		240	Kiev, U. S. S. R.	X	X	X	
17.815	16.84	35/100	Tangier, Morocco			X	
		50/200	Delano, U. S. A.	X	X		
		50	Karachi, Pakistan		X	X	X
		100	Rome, Italy	X	X	X	X
		240	Simferopol, U. S. S. R.	X	X	X	X
		100	Tangier, Morocco	X	X	X	X
		20/240	Peking, China	X		X	
		20/100	Delhi, India		X		X
17.820	16.84	10	Sao Paulo, Brazil	X	X	X	X
		100	Ankara, Turkey			X	X
		100	Colombo, Ceylon	X	X		
		50/500	Greenville, U. S. A.	X			
		50	Sackville, Canada	X	X	X	X
		100	London, U. K.	X		X	X
		100	Limassol, Cyprus (BBC)	X	X		
		50/200	Dixon, U. S. A.	X	X	X	X
17.825	16.83	20/240	Peking, China			X	
		100	Ankara, Turkey	X	X	X	X
		10/100	Shepparton, Australia	X		X	X
		100	Fredrikstad, Norway	X	X	X	X
		50	Moscow/Frunze, U. S. S. R.	X		X	X
		100	Tokio, Japan	X	X	X	X
		50	Poro, Philippines		X	X	X
17.825	16.83	50	Karachi, Pakistan	X	X	X	
		250	Meyerton, South Africa			X	X

16 m.

MHz	Metres	kW	Station and Country	M	M	S	N
17.825	16.83	18/120	Bucharest, Rumania	X	X	X	X
		100	Berlin, Germany (E.)			X	
17.830	16.83	150	Berne, Switzerland	X	X	X	X
		100	Moscow, U. S. S. R.	X	X	X	X
		100	Berlin, Germany (E.)			X	X
		250	Ascension, Ascension Is.				X
		100	Jülich, Germany (W.)	X	X		X
		100	Munich, Germany (W.)				X
		500	Greenville, U. S. A.	X	X	X	X
		50	Poro, Philippines	X	X	X	X
		250	Monrovia, Liberia	X	X	X	X
		50	Delhi, India	X	X		X
17.835	16.82	240	Moscow, U. S. S. R.			X	
		100	Boston, U. S. A.			X	X
		50	Karachi, Pakistan	X	X	X	X
		20/240	Peking, China	X	X	X	X
17.840	16.82	10/250	"Radio Free Europe"	X	X	X	X
		50/100	Cairo, U. A. R. (Egypt)			X	X
		100	Moscow, U. S. S. R.	X	X	X	X
		100	Prague, Czechoslovakia	X	X	X	X
		100	Hörby, Sweden				X
		25/100	Vatican City, Vatican State	X	X	X	X
		100	Boston, U. S. A.				X
17.845	16.82	50/250	Delano, U. S. A.			X	
		10/50	Karachi, Pakistan			X	X
		10/100	Shepparton, Australia	X	X		X
		150	Berne, Switzerland	X	X	X	X
		100	Hörby, Sweden	X	X		X
		100	Jülich, Germany (W.)	X	X	X	X
		50	"Radio Liberty"				X
		100	Sverdlovsk, U. S. S. R.			X	X
		100	Delhi, India	X	X	X	X
		50/500	Greenville, U. S. A.				X
17.850	16.81	50/100	Boston, U. S. A.	X	X	X	X
		10/50	Karachi, Pakistan			X	
		100	Cairo, U. A. R. (Egypt)			X	
		100	Paris, France				X
		18/50/120	Bucharest, Rumania	X	X	X	X
		240	Moscow, U. S. S. R.	X	X	X	X
		110	Bethany, U. S. A.				X
50/200	Dixon, U. S. A.			X	X		
17.855	16.81	50/200	Delano, U. S. A.	X			X
		10	Rio de Janeiro, Brazil	X	X		
		100	Delhi, India	X	X		
		10/50	Karachi, Pakistan			X	
		150	Berne, Switzerland			X	X
		10/50	Karachi, Pakistan				X
		250	London, U. K.			X	X
		100	Tangier, Morocco	X	X	X	X
		100	Novosibirsk, U. S. S. R.				X
		100	Vienna, Austria	X	X	X	X
250	Monrovia, Liberia				X		
30/50	Quito, Ecuador				X		
20/240	Peking, China			X	X		
100	"Radio Liberty"	X	X	X	X		

46 M.

MHz	Metres	kW	Station and Country	M	M	S	N
17.855	16.81	50/500	Greenville, U. S. A.	X	X	X	
17.860	16.80	20/100	Brussels, Belgium	X	X	X	X
		100	Kursk, U. S. S. R.	X	X	X	X
		100	Vatican City, Vatican State	X	X	X	X
17.865	16.79	40	Warsaw, Poland				X
		20	Sabboura, Syria	X	X	X	X
		100	"Radio Liberty"				X
		10/250	"Radio Free Europe"	X	X	X	X
		15/120	Moscow, U. S. S. R.				X
		20/240	Peking, China	X	X		
		100/250	London, U. K.				X
		100	Hörby, Sweden			X	X
		40/250	Cairo, U. A. R. (Egypt)				X
17.870	16.79	100/250	London, U. K.		X	X	X
		240	Moscow, U. S. S. R.	X			X
		100	Shepparton, Australia	X	X	X	X
		10/100	Monrovia, Liberia				X
		35/100	Tangier, Morocco				X
		50/500	Greenville, U. S. A.				X
17.875	16.79	100	Paris, France	X	X	X	X
		100	Jülich, Germany (W.)	X	X	X	X
		100	Cairo, U. A. R. (Egypt)				X
		100	"Radio Liberty"	X	X	X	X
		7.5	Rio de Janeiro, Brazil	X	X	X	X
		250	Monrovia, Liberia	X	X	X	X
17.880	16.78	100/250	London, U. K.			X	X
		7.5	Tebrau, Malaysia (BBC)	X	X	X	X
		100	Paris, France			X	X
		50	Tula, U. S. S. R.			X	X
		240	Petropavlovsk, U. S. S. R.	X			
		100	Berlin, Germany (E.)	X			X
		100	Lisbon, Portugal	X	X	X	X
		50/100	Quito, Ecuador	X	X	X	X
		50/500	Greenville, U. S. A.				X
		100	Vienna, Austria				X
17.885	16.78	100/250	London, U. K.		X	X	X
		20	Limassol, Cyprus (BBC)	X	X	X	X
		100	Vienna, Austria	X	X	X	X
		25/100	Vatican City, Vatican State				X
		100	Havana, Cuba		X	X	X
		50/200	Dixon, U. S. A.		X	X	
		50	Kaunus, U. S. S. R.		X		
17.890	16.77	250/500	Greenville, U. S. A.	X	X	X	X
		100	Armavir/Komsomolsk, U. S. S. R.	X	X		X
		100	Sverdlovsk, U. S. S. R.				X
		30/50	Quito, Ecuador	X	X	X	X
		110	Bethany, U. S. A.				X
		250	Monrovia, Liberia		X	X	
		50	Panchiao, Taiwan	X	X	X	X
17.895	16.76	100	Lisbon, Portugal		X	X	X
		100	Quito, Ecuador		X		X
		20/240	Peking, China				X
		250	Greenville, U. S. A.				X
		250	"Radio Liberty"	X	X	X	X

16 m.

16 m.

13 m.

MHz	Metres	kW	Station and Country	M	M	S	N
17.895	16.76	50/200	Delano, U.S.A.	X	X	X	
		50	Kaunus, U.S.S.R.				X
17.900	16.76	15/120	Moscow, U.S.S.R.	X	X	X	X
		100	Berlin, Germany (E.)	X			
		20/240	Peking, China	X			X
17.905	16.76	50/100	Cairo, U.A.R. (Egypt)				
17.910	16.75	15/120	Moscow, U.S.S.R.				
17.920	16.74	50/100	Cairo, U.A.R. (Egypt)				
17.930	16.73	50/100	Cairo, U.A.R. (Egypt)				
17.945	16.72	50/100	Cairo, U.A.R. (Egypt)				
		50	Karachi, Pakistan				
17.950	16.71	50/100	Cairo, U.A.R. (Egypt)				
18.080	16.59	100	London, U.K.				
		10/50	Karachi, Pakistan				
18.275	16.42	15	Greenville, U.S.A.				
19.721.5	15.22	15	Greenville, U.S.A.				
19.725	15.21	20	Moscow, U.S.S.R.				
			Greenville, U.S.A.				
-20.000	15.00	2.5	Fort Collins, U.S.A.				
21.450	13.99	100	Prague, Czechoslovakia	X	X	X	X
		100	Paris, France	X	X	X	
		20/100	Lagos, Nigeria	X	X	X	
21.455	13.99	35	Tangier, Morocco	X	X	X	X
		100	Lagos, Nigeria	X	X	X	
		250	London, U.K.	X	X	X	
		50	Omdurman, Sudan	X			
		100	Berlin, Germany (E.)				X
21.460	13.98	100	Tula, U.S.S.R.	X	X	X	X
		200	Delano, U.S.A.	X	X	X	X
		100	Amman, Jordan	X			
21.465	13.98	100	Berlin, Germany (E.)	X	X	X	X
		50	Boston, U.S.A.	X	X	X	X
		100	Lagos, Nigeria	X			
		100	Amman, Jordan				X
		120	Peking, China				X
		20/250	Cairo, U.A.R. (Egypt)				X
21.470	13.97	100	London, U.K.	X	X	X	X
21.475	13.97	50	Novosibirsk, U.S.S.R.	X	X	X	X
		100	Berlin, Germany (E.)	X	X	X	X
		100	Lagos, Nigeria	X			
		100	Brussels, Belgium				X
21.480	13.97	100	Hilversum, Netherlands	X	X	X	X
21.485	13.96	100	Vatican City, Vatican State	X	X	X	X
		140	Bethany, U.S.A.	X	X	X	X
		120	Peking, China	X			
		100	Lagos, Nigeria	X			
		100	Delhi, India				X
21.490	13.96	100	Tula, U.S.S.R.	X	X	X	X
		100/250	Dixon, U.S.A.	X			
		10	Rio de Janeiro, Brazil	X			
		100	Lagos, Nigeria	X			
21.495	13.95	100	Lisbon, Portugal	X	X	X	X
		100	Orenburg, U.S.S.R.	X			
21.500	13.95	200	Delano, U.S.A.	X	X	X	X
		250	Meyerton, South Africa	X	X	X	X

MHz	Metres	kW	Station and Country	M	M	S	N
21.500	13.95	50	Brazzaville, Congo	X	X	X	X
		100	Berlin, Germany (E.)			X	X
		100	Lagos, Nigeria			X	
		100	Hilversum, Netherlands				X
21.505	13.95	100	Paris, France				X
		100	Hilversum, Netherlands	X	X	X	X
		240	Erevan, U. S. S. R.	X	X	X	X
21.510	13.95	100	Berlin, Germany (E.)			X	
		100	Brussels, Belgium	X	X	X	
		200	Armavir, U. S. S. R.			X	X
		50	Greenville, U. S. A.			X	X
21.515	13.94	100	Lagos, Nigeria			X	
		250	London, U. K.				X
		5	Grenada, Windward Is.	X			
		250	Bethany, U. S. A.	X	X	X	X
21.520	13.94	50	Frunze, U. S. S. R.			X	X
		2	Bocaue, Philippines			X	X
		100/150	Berne, Switzerland	X	X	X	X
		250	Monrovia, Liberia	X	X	X	X
21.525	13.94	100	London, U. K.			X	
		100	Berlin, Germany (E.)			X	X
		100	Paris, France	X	X	X	
		35	Colombo, Ceylon	X			
21.530	13.93	50/100	Boston, U. S. A.	X	X	X	X
		100	Brussels, Belgium			X	X
		50/100	Vatican City, Vatican State				X
		50	Frunze, U. S. S. R.	X	X	X	X
21.535	13.93	100	London, U. K.	X	X	X	X
		50/100	Boston, U. S. A.	X	X		
		200	Tokio, Japan	X	X	X	
		250	Meyerton, South Africa	X	X	X	X
21.540	13.93	100	London, U. K.			X	
		50	Shepparton, Australia	X	X	X	X
		150	Berne, Switzerland	X	X	X	X
		100	Kursk, U. S. S. R.	X	X	X	X
21.545	13.92	100	Berlin, Germany (E.)	X	X	X	X
		100	Hilversum, Netherlands			X	X
		100	Accra, Ghana	X	X	X	X
		100	London, U. K.	X	X	X	X
21.550	13.92	75/100/250	London, U. K.	X	X	X	X
		100	Berlin, Germany (E.)	X	X		
21.555	13.91	100	Frunze, U. S. S. R.			X	
		100	Julich, Germany (W.)	X	X	X	X
21.560	13.91	100	Tangier, Morocco	X	X	X	
		50	Vatican City, Vatican State	X	X	X	X
		100	Rome, Italy	X	X	X	X
		100/60	Munich, Germany (W.)	X	X	X	X
21.565	13.91	20/240	Tirana, Albania			X	
		100	Lvov, U. S. S. R.	X	X	X	X
		100	Poro, Philippines	X	X	X	X
21.570	13.91	50/35	Hilversum, Netherlands	X	X	X	X
		100	Vatican City, Vatican State			X	
		100	Moscow, U. S. S. R.	X	X	X	X
		100	Hilversum, Netherlands			X	X
21.575	13.91	100	Berlin, Germany (E.)			X	
		100	Hilversum, Netherlands			X	X
		100	Julich, Germany (W.)	X	X	X	X
21.580	13.90	100	Berlin, Germany (E.)	X	X	X	X

13 m.

MHz	Metres	kW	Station and Country	M	M	S	N
21.580	13.90	100	Paris, France	X	X	X	X
		100	Delhi, India	X	X	X	X
		20/100	Boston, U.S.A.				X
21.585	13.90	50	Tunis, Tunisia				X
		100	Hörby, Sweden	X	X	X	
		100	Berlin, Germany (E.)	X	X	X	
		50	Minsk, U.S.S.R.	X			X
		50	Kabul, Afghanistan	X	X	X	
21.590	13.90	50/100	Cairo, U.A.R. (Egypt)	X	X	X	X
		250	Greenville, U.S.A.				X
		50	Karachi, Pakistan	X	X	X	X
		20	Brussels, Belgium	X	X		X
21.595	13.90	140	Bethany, U.S.A.	X	X	X	X
		75/100	London, U.K.	X	X	X	X
		50	Sackville, Canada	X	X	X	X
21.600	13.89	100	Leningrad, U.S.S.R.	X	X	X	X
		100	Berlin, Germany (E.)			X	X
		150	Greenville, U.S.A.			X	X
21.605	13.88	200	Armavir, U.S.S.R.	X			X
		50	Greenville, U.S.A.	X			X
		20/240	Cairo, U.A.R. (Egypt)			X	X
21.610	13.88	100	Kabul, Afghanistan				X
		75/100/250	Moscow, U.S.S.R.	X			
		75/100/250	London, U.K.	X	X	X	X
		10/150	"Radio Free Europe"	X			
21.615	13.88	250/100	Dixon, U.S.A.	X	X	X	X
		100	Limassol, Cyprus			X	X
		100	Beirut, Lebanon			X	X
		100	Delhi, India	X	X		
		100	Riga, U.S.S.R.	X	X	X	X
21.620	13.88	100	Cairo, U.A.R. (Egypt)	X	X	X	X
		10/250	"Radio Free Europe"	X	X		
		100	Paris, France	X	X	X	X
21.625	13.87	100	Frunze, U.S.S.R.	X	X	X	X
		50	"Radio Free Europe"	X			
21.630	13.87	50	Khabarovsk, U.S.S.R.	X	X		
		200	Dixon, U.S.A.	X	X	X	X
		50	Poro, Philippines	X	X	X	X
21.635	13.86	100/250	London, U.K.	X	X	X	X
		240	Kalinin, U.S.S.R.			X	X
21.640	13.86	240	Baku, U.S.S.R.	X	X		
		100	London, U.K.	X	X	X	X
		200	Tokio, Japan	X	X	X	X
21.645	13.85	50	Greenville, U.S.A.			X	X
		100	Jülich, Germany (W.)	X	X	X	
		100	Paris, France	X	X	X	
		240	Armavir, U.S.S.R.	X	X	X	X
21.650	13.85	100	Jülich, Germany (W.)	X	X	X	X
		100	Paris, France	X	X	X	X
		140	Bethany, U.S.A.	X	X	X	X
21.655	13.85	10	Fredrikstad, Norway	X	X	X	X
		100	Kalatch, U.S.S.R.			X	X
21.660	13.85	100	Limassol, Cyprus (BBC)	X	X	X	X
		250	Monrovia, Liberia	X	X		X
		50	Greenville, U.S.A.	X			

13 m.

MHz	Metres	kW	Station and Country	M	M	S	N
21.660	13.85	250	London, U.K.	X	X	X	
21.665	13.85	50	"Radio Free Europe"	X	X	X	X
21.670	13.85	250	Monrovia, Liberia	X	X	X	X
		75/100	London, U.K.			X	
		10	Fredrikstad, Norway			X	
		120	Krasnoyarsk, U.S.S.R.			X	X
21.675	13.84	100	Hörby, Sweden	X	X		X
		100	Serpukhov, U.S.S.R.	X	X	X	
		100	Brussels, Belgium			X	
21.680	13.83	100	London, U.K.	X	X	X	X
		50	"Radio Free Europe"	X	X	X	X
21.685	13.83	10	Dacca, Pakistan	X	X	X	X
		3	Budapest, Hungary			X	X
21.690	13.83	100	Vatican City, Vatican State	X	X	X	X
		100	Hörby, Sweden	X	X	X	X
		50	Tangier, Morocco	X	X	X	X
		75/250	London, U.K.			X	X
		100/10	Grenada, Windward Is.			X	X
21.695	13.82	100	Rome, Italy			X	
		20/250	Cairo, U.A.R. (Egypt)			X	X
21.700	13.82	100	Prague, Czechoslovakia	X	X	X	X
		100	Lisbon, Portugal	X	X	X	X
		100	Vatican City, Vatican State			X	
21.705	13.82	100	Jülich, Germany (W.)	X	X	X	X
		200	Kazan, U.S.S.R.			X	X
21.710	13.82	100	London, U.K.	X	X	X	X
21.715	13.81	100	Tallinn, U.S.S.R.			X	X
		20	Boston, U.S.A.			X	X
		50	Karachi, Pakistan			X	
21.720	13.81	100	"Radio Free Europe"	X	X	X	X
		250	Accra, Ghana	X	X	X	X
		100	Lisbon, Portugal			X	
21.725	13.81	240	Armavir, U.S.S.R.	X	X	X	X
		50	Boston, U.S.A.			X	X
21.730	13.81	10/100	Fredrikstad, Norway	X	X	X	X
		100	Leningrad, U.S.S.R.			X	
21.735	13.80	10/250	"Radio Free Europe"	X	X		
		100	Prague, Czechoslovakia			X	X
		50	Lisbon, Portugal			X	X
21.740	13.80	10/100	Shepparton, Australia	X	X	X	X
		100	Cairo, U.A.R. (Egypt)			X	
		250	Greenville, U.S.A.	X	X	X	X
		250	London, U.K.			X	X
21.745	13.80	10/250	"Radio Free Europe"	X	X		
		100	Lisbon, Portugal			X	
25.610	11.70	100	Hilversum, Netherlands	X	X	X	X
25.620	11.70	250	Delano, U.S.A.			X	X
25.650	11.70	100	London, U.K.	X	X	X	X
25.670	11.69	100	London, U.K.	X	X	X	X
25.710	11.67	100	London, U.K.	X	X	X	X
25.730	11.66	10	Fredrikstad, Norway	X	X	X	X
25.750	11.65	100	London, U.K.	X	X	X	X
25.790	11.63	250	Meyerton, South Africa	X	X	X	X
25.800	11.63	50	Greenville, U.S.A.	X	X	X	
25.840	11.61	100	London, U.K.			X	X

13 m.

11 m.

	MHz	Metres	kW	Station and Country	M	M	S	N
11 m.	25.880	11.60	35	Tangier, Morocco	X	X	X	X
	25.900	11.59	100	Fredrikstad, Norway	X		X	X
	25.920	11.58	75	London, U. K.		X		X
	25.950	11.56	50	Greenville, U. S. A.	X	X	X	X
	26.040	11.52	50	Greenville, U. S. A.	X	X	X	X
	26.080	11.50	100	London, U. K.	X	X	X	X

B. B. C. short-wave transmitters in the U. K. are located at Daventry, Northants; Skelton, Cumberland; Woofferton, Shropshire; and Rampisham, Dorset. Frequencies and powers are interchangeable.

GEOGRAPHICAL LIST OF SHORT-WAVE STATIONS
OF THE WORLD

	MHz		MHz		MHz
AFGHANISTAN		Tirana	7. 300	Algiers	11. 715
Kabul	4. 775		7. 309		11. 810
	7. 200		7. 312		11. 835
	9. 610		7. 325		15. 200
	11. 775		9. 290	ANGOLA	
	11. 790		9. 332	Benguela	5. 045
	15. 265		9. 340	Dundo	9. 615
	15. 270		9. 347	Lobito	4. 911
	15. 405		9. 350		7. 175
	15. 415		9. 363	Luanda	3. 375
	21. 585		9. 397		4. 820
	21. 605		9. 406		4. 980
ALBANIA			9. 486		5. 960
Tirana	5. 060		9. 489		6. 025
	5. 945		9. 500		7. 235
	5. 950		9. 505		7. 245
	5. 960		9. 510	Malanje	4. 935
	6. 020		9. 525	Mocamedes	7. 230
	6. 045		9. 545	Sa da Bandeira	4. 795
	6. 100		9. 575		7. 285
	6. 120		9. 585	ARGENTINA	
	6. 130		9. 700	Buenos Aires	6. 060
	6. 135		9. 760		6. 090
	6. 160		9. 765		6. 100
	6. 180		9. 770		9. 690
	6. 190		9. 780		9. 710
	6. 195		9. 787		9. 740
	6. 200		9. 865		11. 710
	6. 205		11. 750		11. 885
	6. 210		11. 795		15. 290
	7. 061		11. 820		15. 345
	6. 065		11. 845	Hurlingham	11. 780
	7. 077		11. 850	Lomas	
	7. 083		11. 855	Mirador	5. 985
	7. 090+		11. 860		11. 880
	7. 100-		11. 865	Mendoza	6. 180
	7. 105		11. 870	S. Fernando	6. 120
	7. 115		11. 875	ASCENSION IS.	
	7. 120		11. 880	Ascension	
	7. 130		11. 895	(B. B. C.)	7. 105
	7. 135		11. 905		7. 240
	7. 140		11. 940		9. 510
	7. 145		11. 945		9. 550
	7. 150		11. 965		9. 580
	7. 160		14. 602		9. 600
	7. 195		15. 400		11. 820
	7. 200		15. 405		11. 860
	7. 235		15. 410		11. 865
	7. 260		21. 560		15. 105
	7. 265	ALGERIA			15. 140
	7. 280	Algiers	6. 080		15. 175
	7. 290		9. 510		15. 180
	7. 295		9. 685		15. 235

	MHz		MHz		MHz
Ascension Is. —cont.		Vienna	11. 870	Brazilia	9. 720
Ascension	15. 260		11. 925		11. 720
	15. 400		15. 210		15. 440
	15. 435		15. 325		15. 445
	17. 740		15. 380	Cuiaba	4. 985
	17. 830		15. 400		9. 545
AUSTRALIA			15. 410	Curityba	6. 045
Brisbane,			15. 430		11. 845
Queensland	4. 920		17. 715		11. 935
	9. 660		17. 730	Florianopolis	5. 975
Darwin, N. Terr.	7. 170		17. 750		9. 675
	11. 840		17. 855		15. 165
	15. 270		17. 880	Fortaleza	4. 775
Perth, W. A.	6. 140		17. 885		6. 105
	9. 610	AZORES		Goiana	4. 995
	15. 425	Ponta Delgada	4. 865		9. 755
Shepparton,		BELGIUM			11. 735
Victoria	6. 150	Brussels	6. 010	Juis de Fora	4. 925
	7. 190		6. 125	Macapa	4. 915
	7. 220		6. 160	Manaus	4. 805
	9. 540		9. 615		4. 895
	9. 560		9. 740		9. 695
	9. 570		11. 715	Natal	4. 935
	9. 580		11. 875	Paraiba	4. 795
	9. 680		11. 935	Pocos de Caldas	4. 885+
	11. 710		11. 965		9. 645
	11. 740		15. 315	Porto Alegre	5. 965
	11. 765		15. 335		6. 135
	11. 780		17. 860		9. 730
	11. 790		21. 475		11. 785
	11. 810		21. 510		11. 915
	11. 840		21. 525		15. 335
	11. 880		21. 590	Recife	3. 375
	15. 140		21. 675		6. 015
	15. 180	BOLIVIA			6. 085
	15. 220	Cochabamba	5. 025		6. 175
	15. 230		5. 055+		9. 565
	15. 240	La Paz	4. 985		11. 825
	15. 320		5. 017		11. 865
	15. 390		5. 045		15. 145
	17. 715		5. 965	Ribeiro Preto	15. 415
	17. 820		6. 115	Rio de Janeiro	4. 825
	17. 840		6. 195		4. 875
	17. 870		11. 765		4. 905
	21. 540	BOTSWANA			4. 955
	21. 740	Gaberones	4. 836		5. 045
AUSTRIA			7. 295		6. 035
Innsbruck	6. 000	BRAZIL			6. 065
Vienna	6. 155	Aparecida	3. 285		6. 115
	7. 245		9. 635		6. 145
	9. 525	Bahia	4. 765		6. 195
	9. 610	Belem	15. 245		9. 610
	9. 770	Belo Horizonte	6. 000		9. 705
	11. 760	Brazilia	5. 990		9. 770
	11. 785		6. 065		11. 795
	11. 850		9. 665		11. 805

	MHz		MHz		MHz
Brazil—cont.		BURMA		Colombo	6.005
Rio de Janeiro	11.950	Rangoon	5.040		6.075
	15.105		6.035		6.130
	15.285		7.120		6.185
	15.295	BURUNDI			7.105
	15.370	Bujumburu	6.140		7.115
	17.850	CAMBODIA			7.190
	17.875	Phnom Penh	6.090		7.275
	21.490		9.695		9.630
Salvador	9.595		15.255		9.665
	11.875		17.710		9.720
	15.125	CAMEROON REPUBLIC			11.800
	15.225	Buea	3.970		11.835
Sao Jose	4.785	Garoua	5.010		11.865
	4.975	Yaounde	4.970		15.120
	17.725		6.040		15.230
Sao Luiz	4.785	CANADA			15.285
	4.975	Canadian			17.815
Sao Paulo	2.340	Observatory	14.670		21.525
	5.955	Halifax	6.130	CHILE	
	6.025	Sackville	5.955	Arica	9.520
	6.045		5.970	Concepcion	6.135
	6.055		5.990	Santiago	6.070
	6.095		6.060		6.150
	6.125		9.610		9.565
	6.165		9.625		9.590
	6.185		9.630		9.600
	9.620		11.720		9.650
	9.685		11.725		9.705
	9.745		11.765		9.750
	11.745		11.945		11.740
	11.765		11.965		11.960
	11.925		15.190		15.150
	11.965		15.320	Valparaiso	9.550
	15.155		15.325		11.895
	15.265		17.710	CHINA	
	15.325		17.720	(See also TAIWAN)	
	17.705		17.820	Fukien Front	
	17.815		21.595	Station	3.200
Teresina	4.845	St. Johns	6.160		3.900
BULGARIA		Sydney	6.010		4.380
Sofia	5.920	Toronto	6.070		5.170
	6.070	Montreal	6.005	Unknown	17.220
	6.245	CANARY IS.		Unknown	17.662
	7.255	Las Mesas	11.800	Peking	3.450
	7.670		15.365		3.950
	9.560	Santa Cruz de			3.970
	9.660	Tenerife	15.365		4.170
	9.700	CAPE VERDE IS.			4.200
	11.765	Sao Vincente	4.720		4.220
	11.950	CENTRAL AFRICAN			4.865
	11.970	REPUBLIC			4.905
	15.245	Bangui	5.035		4.960
	15.310	CEYLON			4.975
	17.800	Colombo	4.900		5.030
			4.970		5.074

China—cont. Peking	MHz	Peking	MHz	Peking	MHz
	5. 125		7. 045		9. 480
	5. 145		7. 055		9. 485
	5. 320		7. 060		9. 490
	5. 445		7. 065		9. 498
	5. 545		7. 075		9. 500
	5. 935		7. 080		9. 505
	5. 950		7. 095		9. 520
	5. 955		7. 100		9. 545
	5. 975		7. 105		9. 580
	6. 130		7. 120		9. 590
	6. 155		7. 125		9. 595
	6. 210		7. 155		9. 605
	6. 225		7. 170		9. 630
	6. 250		7. 190		9. 730
	6. 260		7. 200		9. 750
	6. 275		7. 275		9. 755
	6. 290		7. 315		9. 775
	6. 320		7. 320		9. 800
	6. 344		7. 335		9. 855
	6. 355		7. 350		9. 860
	6. 379		7. 375		9. 870
	6. 386		7. 430		9. 880
	6. 392		7. 435		9. 892
	6. 395		7. 450		9. 898
	6. 400		7. 480		9. 900
	6. 406		7. 500		9. 920
	6. 410		7. 550		9. 925
	6. 480		7. 580		9. 940
	6. 560		7. 595		9. 945
	6. 570		7. 610		9. 955
	6. 601		7. 620		9. 964
	6. 605		7. 658		10. 175
	6. 609		7. 700		10. 154
	6. 620		7. 800		10. 177
	6. 635		7. 810		10. 242
	6. 640		7. 820		10. 253
	6. 645		7. 824		10. 260
	6. 665		7. 824		10. 260
	6. 750		7. 910		10. 865
	6. 790		9. 020		11. 100
	6. 810		9. 038		11. 290
	6. 820		9. 042		11. 300
	6. 830		9. 080		11. 330
	6. 860		9. 279		11. 344
	6. 935		9. 290		11. 445
	6. 955		9. 298		11. 501
	6. 974		9. 340		11. 505
	7. 005		9. 350		11. 590
	7. 010		9. 355		11. 600
	7. 015		9. 365		11. 630
	7. 020		9. 370		11. 660
	7. 025		9. 376		11. 675
	7. 030		9. 380		11. 685
	7. 035		9. 386		11. 695
	7. 040		9. 390		11. 700
			9. 440		11. 705
			9. 460		11. 710

China—cont.	MHz		MHz		MHz
Peking	11. 715	Peking	15. 410	Cali	4. 955
	11. 720		15. 415		4. 965
	11. 730		15. 435		6. 055
	11. 740		15. 480		6. 140
	11. 760		15. 517		6. 200
	11. 765		15. 520	Florenca	5. 035
	11. 780		15. 550	Ibaque	6. 040
	11. 790		15. 600	Manizales	5. 020
	11. 800		15. 670	Medellin	5. 980
	11. 805		15. 710		6. 095
	11. 810		16. 342		6. 105
	11. 820		16. 435	Neiva	4. 945
	11. 835		17. 535	Sutatenza	5. 074
	11. 855		17. 635	Tunja	5. 985
	11. 860		17. 640	Villavicencia	4. 875
	11. 865		17. 650	CONGO	
	11. 870		17. 675	Brazzaville	3. 264
	11. 895		17. 680		4. 770
	11. 905		17. 700		4. 839
	11. 910		17. 705		5. 970
	11. 925		17. 715		6. 115
	11. 935		17. 730		7. 105
	11. 980		17. 735		9. 610
	12. 013		17. 745		9. 715
	12. 015		17. 780		9. 730
	12. 035		17. 785		11. 710
	12. 049		17. 795		11. 725
	12. 055		17. 805		11. 790
	12. 094		17. 810		11. 930
	15. 015		17. 815		11. 970
	15. 030		17. 820		11. 975
	15. 060		17. 835		15. 190
	15. 080		17. 855		15. 445
	15. 095		17. 865		17. 720
	15. 100		17. 895		17. 785
	15. 115		17. 900		21. 500
	15. 135		21. 465	CONGO REPUBLIC	
	15. 165	Sining	21. 485	Kinshasa	4. 880
	15. 180	Urumchi	3. 950		7. 115
	15. 185		4. 110		7. 185
	15. 200	COLOMBIA	4. 500		9. 775
	15. 205	Bogota			11. 795
	15. 230		5. 955		15. 245
	15. 240		5. 960	Lubumbashi	4. 745
	15. 255		5. 970		5. 955
	15. 265		5. 995		9. 540
	15. 270		6. 010		11. 865
	15. 280		6. 075	Luluaborg	6. 125
	15. 290		6. 085	Matadi	7. 205
	15. 300		6. 160	Mbandaka	5. 990
	15. 315		9. 530	COMORO IS.	
	15. 350		9. 613	Dzaudzi	3. 331
	15. 360		9. 630	COSTA RICA	
	15. 365		9. 690	Puerto Limon	5. 955
	15. 385	Cali	11. 790	San Jose	4. 752
			4. 910		6. 207

	MHz		MHz		MHz
Costa Rica—cont.		Limassol	15.105	Quito	4.680
San Jose	6.005		15.195		4.865
	6.035		15.260		4.910
	6.040		15.310		6.050
	6.065		15.330		6.160
	6.150		15.375		9.645
	9.615		15.420		9.745
	9.645		15.435		10.021
CUBA			17.820		11.755
Havana	6.060		17.885		11.765
	9.525		21.610		11.910
	9.550		21.660		11.915
	9.655	Nicosia			15.110
	11.735	(Testing)	9.525		15.115
	11.760	CZECHOSLOVAKIA			15.120
	11.865	Prague	5.930		15.130
	11.930		6.055		15.185
	15.155		6.090		15.320
	15.230		6.105		15.325
	15.270		6.140		17.855
	15.285		6.185		17.880
	15.300		7.175		17.890
	15.345		7.345		17.895
	15.365		9.505	Zaruma	4.915
	15.415		9.540	EGYPT (see under	
	17.170		9.560	UNITED ARAB	
	17.705		9.575	REPUBLIC)	
	17.715		9.600	ETHIOPIA	
	17.750		9.605	Addis Ababa	6.065
	17.885		9.630		6.185
CYPRUS			11.760		7.125
Limassol			11.800		7.245
(B. B. C.)	6.050		11.960		7.290
	6.065		11.990		9.560
	6.120		15.285		9.600
	6.180		15.310		9.695
	7.120		15.365		9.705
	7.140		15.445		11.730
	7.155		17.715		11.770
	7.230		17.840		11.775
	7.260	DAHOMEY			11.815
	9.510	Cotonou	4.870		11.845
	9.600	DENMARK			11.855
	9.625	Copenhagen	9.520		11.870
	9.650		15.165		11.890
	9.690	DOMINICAN REPUBLIC			11.895
	9.750	Puerto Plata	6.190		11.905
	11.720	Santiago	5.030		11.935
	11.865	Santo Domingo	6.090		15.130
	11.890		9.505		15.135
	11.905		9.590		15.170
	11.910	ECUADOR			15.180
	11.915	Bahia	4.795		15.190
	11.945	Cuenca	5.950		15.235
	11.955	Loja	4.726		15.270
	11.970	Quito	3.340		15.315

	MHz		MHz		MHz
Ethiopia—cont.		Paris	21.500	Berlin	17.900
Addis Ababa	15.400		21.525		21.455
	15.410		21.580		21.465
	15.425		21.620		21.475
FINLAND			21.645		21.500
Pori	6.120		21.650		21.505
	9.550	GABON			21.520
	11.805	Franceville	3.350		21.540
	15.185		6.020		21.555
FORMOSA (see under		Libraville	4.873		21.575
Taiwan)		GERMANY (EAST)			21.585
FRANCE		Berlin	6.005		21.600
Paris	5.955		6.050	Leipzig	9.730
	5.960		6.080	GERMANY (WEST)	
	6.095		6.115	Bremen	6.190
	6.115		6.195	Jülich	6.025
	6.175		7.185		6.075
	7.160		7.280		6.100
	7.180		7.300		6.120
	7.230		9.500		6.130
	7.235		9.530		6.145
	7.255		9.560		6.185
	7.260		9.570		7.130
	7.280		9.600		7.270
	9.520		9.710		7.290
	9.560		9.735		9.545
	9.585		9.745		9.605
	9.620		11.785		9.610
	9.700		11.820		9.640
	9.755		11.840		9.650
	11.725		11.890		9.655
	11.775		11.920		9.735
	11.790		15.100		9.765
	11.845		15.110		11.785
	11.920		15.125		11.795
	11.975		15.140		11.905
	15.120		15.145		11.925
	15.155		15.150		11.945
	15.160		15.170		11.965
	15.175		15.200		15.205
	15.185		15.210		15.245
	15.190		15.225		15.275
	15.200		15.240		15.300
	15.245		15.255		15.315
	15.295		15.260		15.405
	15.380		15.270		15.410
	15.445		15.315		15.415
	17.720		15.340		15.435
	17.730		15.390		17.705
	17.735		15.445		17.790
	17.740		15.450		17.830
	17.745		17.700		17.845
	17.850		17.730		17.875
	17.875		17.825		21.560
	17.880		17.830		21.580
	21.450		17.880		21.645

	MHz		MHz		MHz
Germany (West)—cont.		"Radio Free Europe"		"Radio Liberty"*	
Julich	21.650		11.825		11.935
	21.705		11.855		11.970
Mühlacker	6.030		11.885		15.049
Munich	3.980		11.895		15.105
	6.005		11.905		15.125
	6.040		11.915		15.130
	6.060		11.970		15.225
	6.085		15.115		15.260
	6.160		15.130		15.290
	9.540		15.145		15.340
	9.660		15.170		15.370
	9.760		15.215		15.380
	15.190		15.255		15.410
	15.195		15.270		15.445
	15.310		15.355		17.720
	17.705		15.540		17.750
	17.830		17.620		17.780
	21.560		17.725		17.845
"Radio Free Europe"			17.735		17.855
	3.960		17.800		17.865
	3.970		17.805		17.875
	3.995		17.835		17.895
	5.960		17.865	GHANA	
	5.970		21.610	Accra	3.350
	5.985		21.620		4.915
	6.105		21.625		4.980
	6.135		21.665		5.990
	6.170		21.680		6.070
	6.185		21.720		6.130
	7.115		21.735		9.545
	7.145		21.745		9.760
	7.165	"Radio Liberty"*			15.190
	7.190		3.990		21.545
	7.200		5.955	Ejura	11.800
	7.215		6.095		11.850
	7.245		7.145		15.285
	7.250		7.155		21.720
	7.255		7.180	GREECE	
	9.505		7.220	Athens	6.045
	9.520		7.235		7.145
	9.565		7.285		7.295
	9.595		7.295		7.300
	9.655		9.520		9.605
	9.695		9.555		11.720
	9.705		9.610		11.725
	9.725		9.660		15.160
	10.420		9.680		15.340
	11.675		9.750		15.345
	11.705		11.725		15.425
	11.725		11.770		17.745
	11.775		11.870	Janina	7.100
	11.875		11.915		7.150

*Sites in Germany, West (Lampertheim) and Spain (Playa de Pals) are listed here.

	MHz		MHz		MHz
Greece—cont.		Cap Haitien	6.155	Delhi	7.195
Rhodes	6.015		9.770		7.200
	7.105		11.835		7.215
	7.130	Port au Prince	5.950		7.225
	7.170		5.980		7.235
	7.270		15.265		7.255
	7.285	HAWAII IS.			7.285
	11.710	Honolulu	15.250		7.290
Serrai	5.955	HONDURAS			9.525
	7.155	Pedro Sula	5.965		9.530
Thessaloniki	5.995		5.995		9.535
	6.075		6.125		9.575
	7.110	Santa Rosa de			9.590
	7.205	Copan	5.960		9.600
	7.290	Tegucigalpa	4.820		9.615
	9.540		5.875		9.620
	9.640		6.020		9.630
	9.660		6.060		9.680
	9.680		6.085		9.690
	9.690		6.110		9.695
	9.710	HUNGARY			9.705
	11.760	Budapest	4.000		9.715
	11.770		6.235		9.740
	11.790		7.100		9.765
	11.870		7.220		9.912
	11.960		7.260		10.335
Tripolis	6.005		9.615		11.620
GREENLAND			9.833		11.705
Godthaab	5.960		11.910		11.710
	5.980		15.160		11.715
GUATEMALA			17.795		11.725
Guatemala City	5.955		21.685		11.740
	6.030	INDIA			11.750
	6.150	Bhopal	5.990		11.760
	6.180		7.180		11.765
Mazotenango	5.970	Bombay	6.035		11.775
Quezatenango	11.700		7.120		11.790
San Raimundo	4.870		9.575		11.800
Zacapa	3.380		11.830		11.805
GUINEA REPUBLIC			11.870		11.810
Bata	4.925		11.965		11.845
Conakry	4.900		17.705		11.850
	5.041	Calcutta	7.210		11.855
	6.155		9.530		11.865
	7.125	Delhi	4.760		11.875
	9.650		4.860		11.885
	15.310		4.960		11.895
Santa Isabel	6.250		5.950		11.910
GUYANA			6.025		11.920
Georgetown	3.265		6.040		11.925
	5.975		6.050		15.125
	5.980		6.060		15.130
HAITI			6.190		15.135
Cap Haitien	6.100		7.105		15.140
	6.105		7.125		15.155
	6.120		7.165		15.160

	MHz		MHz		MHz
India—cont.		Denpassar	7.120	Baghdad	11.785
Delhi	15.165	Djakarta	3.277		15.400
	15.175		5.955	ISRAEL	
	15.180		6.045	Jerusalem	7.190
	15.185		6.105		9.625
	15.190		7.105		9.725
	15.205		7.175	Tel Aviv	9.009
	15.215		7.270	ITALY	
	15.220		9.585	Caltanissetta	3.995
	15.235		9.770		6.060
	15.250		11.705		7.175
	15.265		11.710		9.515
	15.275		11.770	Rome	5.959
	15.290		11.900		5.965
	15.310		11.905		5.990
	15.335		15.120		6.010
	15.340		15.250		6.020
	15.430		15.320		6.025
	17.610	Jogjakarta	5.048		6.050
	17.705	Kotaradja	2.390		6.070
	17.715	Kupang	3.295		6.095
	17.740	Makassar	9.550		7.130
	17.800	Manowari	6.185		7.160
	17.815	Medan	5.065		7.235
	17.830		7.240		7.275
	17.845	Mendo	5.980		7.290
	17.850	Padang	3.960		9.575
	21.485		4.955		9.630
	21.580		6.170		9.710
	21.615		6.190		11.760
Gauhati	4.775	Pekan Baru	3.995		11.800
	5.970	Sukanapura	6.070		11.810
	7.150		11.865		11.845
Hyderabad	3.355	Surabaya	3.975		11.875
	4.800		5.950		11.905
	7.140		6.120		11.965
	9.720	IRAN			15.310
Jammu	5.960	Tabriz	6.155		15.330
	7.160	Teheran	6.025		15.340
Kohima	7.170		7.056		15.375
Kurseong	7.230		7.064		15.400
Lucknow	6.170		7.080		15.410
	7.250		7.110		17.740
Madras	4.920		9.560		17.795
	6.085		11.705		17.815
	7.260		11.730		21.560
	9.510		15.135		21.695
	9.590	IRAQ		IVORY COAST	
	9.750	Baghdad	3.240	Abidjan	3.242
	15.335		3.960		4.940
Simla	6.020		6.030		6.015
Srinagar	7.270		6.095		7.215
INDONESIA			6.155		11.765
Amboina	7.140		7.180		11.920
Bandjarmasin	5.970		7.240	JAPAN	
Denpassar	7.115		9.555	Tokio	5.985

	MHz		MHz		MHz
Japan—cont.					
Tokio	6.055	Pyongyang	6.540	Monrovia	15.155
	6.065		6.600		15.195
	6.080		7.580		15.265
	6.140		11.350		15.320
	6.155		11.765		15.325
	7.140	KOREA (SOUTH)	15.525		15.360
	7.195	Suwon			15.370
	9.505		9.640		15.405
	9.525		15.130		15.445
	9.530		15.155		17.705
	9.560	KUWAIT	15.430		17.740
	9.595	Kuwait			17.800
	9.605		7.175		17.830
	9.670		11.920		17.855
	9.675		11.940		17.870
	9.700	Magwa	17.810		17.875
	9.705		9.520		17.890
	9.765	LAOS	17.750		21.520
	9.775	Vientiane			21.660
	11.705	LEBANON	6.130		21.670
	11.750	Bierut		LIBYA	
	11.780		5.980	Tripoli	7.165
	11.815		7.170		9.535
	11.875		9.545		11.755
	11.940		11.785		11.795
	11.960		15.220		11.800
	15.105		15.280		15.365
	15.135		15.285		17.700
	15.195		15.350	LUXEMBOURG	
	15.235		15.440	Junglinster	15.350
	15.260		17.715	MADAGASCAR	
	15.300		17.750	Tananarive	4.985
	15.445	LIBERIA	21.610		17.730
	17.725	Monrovia		MALAYSIA	
	17.785		3.227	Kajang	4.985
	17.825		3.990		5.965
	21.535		4.770		6.025
	21.640		6.035		6.060
			6.180		6.085
JORDAN			7.135		6.090
Amman	6.045		7.175		6.135
	7.155		7.195		6.175
	9.530		7.280		7.110
	9.560		9.530		7.130
	11.810		9.555		7.300
	15.170		9.735		9.515
	21.460		9.750		9.565
	21.465		11.740		9.660
KENYA			11.875		9.710
Nairobi	4.885		11.915		11.900
	7.210		11.950		11.905
KOREA (NORTH)			11.960		15.280
Pyongyang	2.850		11.970	Kuching	7.145
	6.250		11.975		7.160
	6.400		15.125		7.270
	6.535		15.130		9.535

	MHz		MHz		MHz
Malaysia—cont.		Mexico City	15.200	Tangier	6.045
Kuching	9.605	Tapachula	6.120		6.075
Penang	7.200	Tlexiaco	6.145		6.080
	7.295	Vera Cruz	6.020		6.125
Sabah	4.970		9.545		6.160
Sarawak	4.950	MONACO			6.170
	5.030	Monte Carlo	5.960		7.105
Singapore	5.010		6.035		7.160
	5.052		7.105		7.220
	6.000		7.135		7.270
	6.040		7.210		7.295
	6.155		7.215		9.530
	7.170		7.220		9.540
	7.250		7.230		9.615
	9.635		7.245		9.660
	11.940		7.260		9.690
	11.955		7.290		9.715
Tebrau	3.920		7.295		9.760
	6.010		9.525		11.710
	6.080		9.570		11.735
	7.120		9.575		11.745
	7.235		9.590		11.760
	9.570		9.605		11.770
	9.580		9.625		11.780
	9.725		9.630		11.805
	9.740		9.635		11.870
	11.725		9.655		11.875
	11.750		9.675		11.940
	11.805		9.735		11.960
	11.840		11.700		15.195
	11.955		11.705		15.200
	15.300		11.740		15.205
	15.310		11.745		15.225
	15.435		11.820		15.235
	17.880		11.840		15.250
MALI			11.860		15.270
Bamako	4.783		11.865		15.290
	4.835		11.875		15.295
	9.635		11.905		15.310
	9.745		11.920		15.315
MARTINIQUE			11.940		15.325
Fort de France	3.315		11.965		15.330
MAURITANIA		MONGOLIA			15.335
Nouachott	7.245	Ulan Bator	6.170		15.345
	9.610		7.120		15.360
MEXICO			7.365		15.792
Chihuahua	6.140		9.545		17.705
	11.965		9.575		17.800
Leon	6.065		15.445		17.810
Mexico City	6.010	MOROCCO			17.815
	6.165	Rabat	11.730		17.855
	6.185	Sebaa Aioun	6.190		17.870
	9.515		7.115		21.455
	11.740		7.225		21.560
	11.880	Tangier	5.955		21.690
	15.110		5.965		25.880

	MHz		MHz		MHz
MOZAMBIQUE		Bonaire	15.340	Lagos	21.475
Beira	7.205		15.350		21.485
Lourenço			15.435		21.490
Marques	4.855	NEW CALEDONIA			21.500
	4.865	Noumea	7.170		21.510
	4.925	NEW ZEALAND		NORWAY	
	6.050	Wellington	9.520	Frederikstad	7.210
	7.195		9.540		7.240
	11.780		9.755		9.550
	11.870		11.705		9.610
	15.295		11.780		9.645
Port Amelia	7.150		11.820		11.735
NEPAL			15.110		11.850
Katmandu	7.165	NICARAGUA			11.860
	9.590	Managua	9.710		15.175
NETHERLANDS		NIGER			15.345
Hilversum	5.980	Niamey	3.260		17.825
	5.995	NIGERIA			21.655
	6.020	Benin City	4.932		21.670
	6.085	Enugu	4.855		21.730
	9.525		6.035		25.730
	9.590		6.105		25.900
	9.715		6.145	Tromsö	7.215
	11.730		7.301		11.735
	11.945	Ibadan	3.204	PAKISTAN	
	15.180	Kaduna	3.326	Dacca	5.970
	15.320		6.090		5.985
	15.425		6.175		21.685
	17.750	Lagos	3.985	Islamabad	11.705
	17.810		4.990		15.110
	21.480		7.115	Karachi	4.965
	21.500		7.185		6.070
	21.505		7.255		6.125
	21.504		7.275		7.100
	21.570		7.285		7.125
	21.575		9.520		7.135
	25.610		9.690		7.215
NETHERLAND			11.705		7.235
ANTILLES			11.715		7.240
Bonaire	6.110		11.770		7.275
	9.545		11.775		9.645
	9.590		11.840		9.700
	9.605		11.875		9.750
	9.675		11.915		11.735
	9.695		15.120		11.740
	9.730		15.130		11.745
	11.700		15.155		11.770
	11.715		15.255		11.805
	11.730		15.330		11.875
	11.740		15.365		11.885
	11.745		17.710		11.890
	11.865		17.735		11.895
	11.820		17.780		11.965
	11.845		21.450		11.970
	15.250		21.455		11.985
	15.285		21.465		15.100

	MHz		MHz		MHz
Pakistan—cont.		Puno	9.565	Tinang	15.155
Karachi	15.105		9.570	Valenzuela	6.030
	15.185	Tarapoto	9.710	POLAND	
	15.190	Tumbes	5.990	Warsaw	5.970
	15.200	PHILIPPINES			5.995
	15.205	Bocaué	6.120		6.005
	15.230		7.225		6.010
	15.315		7.230		6.135
	15.325		9.505		7.125
	15.330		9.715		7.145
	15.335		11.855		7.200
	15.340		11.890		7.270
	15.345		11.920		7.285
	15.360		15.300		9.505
	15.380		15.385		9.525
	15.450		15.440		9.540
	15.523		17.810		9.550
	17.745		21.515		9.570
	17.800	Malolo	9.580		9.635
	17.815		11.965		9.675
	17.825		15.175		11.700
	17.835		15.365		11.720
	17.840		15.410		11.725
	17.845	Poro	3.286		11.740
	17.850		6.170		11.760
	17.855		7.275		11.775
	17.945		9.530		11.780
	18.080		9.545		11.790
	21.590		9.555		11.800
Peshawar	6.145		9.560		11.815
	6.150		9.615		11.840
Quetta	5.965		11.730		11.880
PAPUA			11.775		11.955
Port Moresby	9.520		11.790		11.990
PARAGUAY			11.805		15.120
Ascuncion	6.025		11.865		15.180
Concepcion	11.915		11.930		15.210
Encarnacion	11.945		15.155		15.210
Villarica	5.975		15.165		15.275
PERU			15.175		17.735
Chachapayas	9.655		15.210		17.800
Iquitos	4.815		15.250		17.865
	5.009		15.290	PORTUGAL	
	9.625		15.345	Lisbon	6.025
Jaen	5.005		15.365		6.155
Lima	5.950		15.395		6.185
	5.970		15.410		7.130
	5.980		15.440		9.585
	6.045		17.735		9.630
	6.070		17.750		9.680
	6.080		17.810		9.695
	6.095		17.825		9.705
	9.560		17.830		9.740
	9.675		21.570		11.725
	15.150		21.630		11.735
	15.155	Tinang	11.715		11.785

	MHz		MHz		MHz
Portugal—cont.		Bucharest	15. 205	SENEGAL	
Lisbon	11. 840		15. 210	Dakar	4. 890
	11. 895		15. 215		4. 950
	11. 910		15. 225		9. 720
	11. 925		15. 250		15. 115
	12. 050		15. 275		15. 175
	12. 370		15. 285		15. 415
	15. 115		15. 300	Ziguinchor	3. 336
	15. 125		15. 305		6. 180
	15. 150		15. 325	SOUTH AFRICA	
	15. 170		15. 380	Johannesburg	3. 997
	15. 315		15. 440	Meyerton	3. 250
	15. 340		17. 740		3. 320
	15. 345		17. 750		3. 940
	17. 725		17. 825		3. 965
	17. 740		17. 850		4. 875
	17. 880	RWANDI			4. 895
	17. 895	Kigali	6. 055		4. 945
	21. 495		9. 565		5. 980
	21. 700		9. 735		5. 990
	21. 720		11. 785		6. 075
	21. 735		11. 795		6. 135
	21. 745		11. 905		7. 185
Porto Alto	6. 080		15. 380		7. 195
RHODESIA			15. 435		7. 230
Gwelo	3. 396	RYUKYU IS.			7. 270
	5. 975	Okinawa	6. 010		9. 525
			6. 075		9. 530
RUMANIA			7. 160		9. 570
Bucharest	5. 990		7. 165		9. 680
	6. 150		7. 235		9. 705
	7. 175		9. 545		11. 735
	7. 195		11. 715		11. 785
	7. 225		11. 730		11. 865
	9. 510		11. 830		11. 875
	9. 570		11. 920		11. 900
	9. 580		11. 965		15. 220
	9. 590		15. 210		15. 245
	9. 600		15. 365		15. 360
	11. 725		15. 375		15. 365
	11. 780		15. 395		15. 395
	11. 790				17. 790
	11. 805	SALVADOR			17. 795
	11. 810	San Salvador	6. 010		17. 805
	11. 820		9. 550		17. 825
	11. 875	SAUDI ARABIA			21. 500
	11. 885	Jeddah	9. 560		21. 535
	11. 905		9. 670		25. 790
	11. 910		11. 855		
	11. 920		15. 155	SOMALI REPUBLIC	
	11. 940		15. 150	Mogadiscio	6. 095
	11. 965	Riyadh	6. 000	SPAIN*	
	11. 970		7. 220	Madrid	6. 130
	15. 185		9. 720		6. 140
	15. 200		11. 950		7. 105

* "Radio Liberty" with sites in Spain are listed under Germany (West).

	MHz		MHz		MHz
Spain—cont.		Berne	9.590	Taipei	9.580
Madrid	7.180		9.595		9.765
	9.360		9.695		11.725
	9.370		11.715		15.125
	9.570		11.775		15.280
	9.605		11.845		15.325
	9.675		11.865		15.345
	9.760		11.880		15.370
	11.710		11.895		17.720
	11.800		15.125	Tamsui	6.040
			7.250		
	15.420		15.180	TANZANIA	
ST. THOMAS ISLAND			15.305	Dar es Salaam	5.050
Sao Tome	4.807		15.430		5.980
SUDAN			17.795		5.985
Omdurman	4.993		17.830		9.550
	7.200		17.845		15.435
	9.505		17.855	Marhubi	9.550
	11.835		21.520	Zanzibar	3.339
	21.455		21.540	TCHAD	
SWAN ISLAND		Beromünster	7.210	Fort Lamy	4.905
Radio America	6.000	SYRIA			11.760
SWEDEN		Damascus	5.960	THAILAND	
Hörby	5.990		6.200	Bangkok	6.010
	6.065		7.105		6.060
	9.625		7.145		6.070
	9.760		7.235		6.095
	11.705		11.915		6.105
	11.765		15.185		6.140
	11.790	Sabboura	9.585		6.195
	11.805		15.165		6.200
	11.810		15.290		6.405
	11.865		17.865		7.105
	11.880	TAHITI			7.115
	11.915	Papeete	6.135		7.140
	15.240		11.825		7.230
	15.275	TAIWAN (FORMOSA)			9.423
	15.310	Minhsiung	7.130		9.655
	15.315		7.150		9.730
	15.445		7.185		11.805
	17.800		9.530		11.910
	17.840		11.905		11.915
	17.845		11.945		15.235
	17.865		11.970	TOGOLAND	
	21.585		11.975	Lome	3.222
	21.675		15.280		5.047
	21.690		15.320		7.265
SWITZERLAND		Panchiao	9.685	TUNISIA	
Berne	3.985		11.825	Tunis	5.985
	5.985		11.860		6.170
	6.015		15.345		6.195
	6.120		17.890		11.935
	6.165	Taichung	7.110		11.970
	7.970		9.745		21.580
	9.665	Taipei	6.105	Sfax	11.900
	9.720		7.245		11.910
	9.535		7.280		11.930

	MHz		MHz		MHz
Tunisia—cont.		Cairo	11.935	London	6.160
Sfax	15.215		11.940		6.180
			11.965		6.195
TURKEY			11.980		7.110
Ankara	6.225		12.005		7.120
	7.240		15.055		7.130
	9.515		15.090		7.140
	9.745		15.105		7.150
	15.160		15.135		7.155
	17.815		15.175		7.170
	17.820		15.240		7.185
Istanbul	6.469		15.260		7.190
UGANDA			15.300		7.200
Kampala	4.975		15.345		7.210
	5.017		15.475		7.230
	7.195		17.670		7.235
UNITED ARAB			17.690		7.245
REPUBLIC (EGYPT)			17.725		7.250
Cairo	7.050		17.750		7.260
	7.075		17.785		7.270
	7.160		17.840		7.325
	7.215		17.845		7.747
	7.265		17.865		9.317
	7.375		17.875		9.410
	9.450		17.905		9.510
	9.475		17.920		9.530
	9.495		17.930		9.565
	9.505		17.945		9.600
	9.515		17.950		9.635
	9.525		21.465		9.640
	9.550		21.585		9.660
	9.585		21.605		9.665
	9.595		21.615		9.690
	9.685		21.695		9.710
	9.735		21.740		9.715
	9.765	UNITED KINGDOM			9.720
	9.775	London*	3.952		9.735
	9.780		3.975		9.740
	9.795		5.965		9.750
	9.805		5.975		9.765
	9.820		5.990		9.770
	10.117		6.010		9.825
	11.650		6.050		9.915
	11.655		6.060		11.705
	11.685		6.065		11.710
	11.705		6.075		11.720
	11.755		6.080		11.725
	11.765		6.090		11.750
	11.805		6.095		11.760
	11.875		6.110		11.770
	11.900		6.120		11.780
	11.910		6.125		11.805
	11.915		6.140		11.820
	11.925		6.150		11.830

*B. B. C. short-wave transmitters in the U. K. are located at Daventry, Northants; Skelton, Cumberland; Woofferton, Shropshire; and Rampisham, Dorset. Frequencies and powers are interchangeable.

U. K. — cont.	MHz	London	MHz	Bethany	MHz
London	11.840		18.080		15.330
	11.850		21.455		17.750
	11.860		21.470		17.785
	11.865		21.510		17.790
	11.870		21.520		17.850
	11.880		21.530		17.890
	11.890		21.535		21.485
	11.890		21.550		21.515
	11.900		21.590		21.590
	11.905		21.610		21.650
	11.910		21.630	Boston, Mass.	5.985
	11.915		21.640		9.575
	11.925		21.660		9.615
	11.930		21.670		9.690
	11.945		21.680		11.730
	11.955		21.690		11.740
	11.960		21.710		11.855
	11.965		21.740		11.905
	11.970		25.650		11.970
	12.040		25.670		15.105
	12.095		25.710		15.130
	12.182		25.750		15.215
	15.070		25.840		15.265
	15.105		25.920		15.355
	15.140		26.080		15.370
	15.180	UPPER VOLTA			15.440
	15.195	Ougadougou	4.813		17.730
	15.200	URUGUAY			17.835
	15.205	Melo	15.230		17.840
	15.220	Montevideo	6.000		17.845
	15.235		6.035		21.465
	15.245		6.040		21.525
	15.260		6.075		21.530
	15.280		6.115		21.580
	15.285		6.125		21.715
	15.290		6.140		21.725
	15.300		6.155	Delano, Cal.	5.955
	15.310		9.515		5.965
	15.375		9.595		6.125
	15.390		9.620		6.145
	15.435		11.735		9.545
	15.780		11.835		9.700
	15.913		11.885		11.770
	17.695		11.900		11.805
	17.705		15.275		11.830
	17.715		15.355		11.850
	17.740	U. S. A.			11.875
	17.790	Bethany	7.280		17.705
	17.800		9.525		17.800
	17.810		9.590		17.810
	17.820		9.565		17.840
	17.855		9.755		17.850
	17.865		11.830		17.895
	17.870		11.875		21.460
	17.880		11.890		21.500
	17.885		15.160		25.620

	MHz		MHz		MHz
U. S. A. —cont.		Greenville,		Greenville,	
Dixon, Cal.	5.955	N. Carolina	11.830	N. Carolina	26.040
	5.995		11.835	Red Lion	11.795
	6.185		11.845		17.720
	9.555		11.870	U. S. S. R.	
	9.565		11.875	Adamouka	
	9.585		11.890	Bachk	15.435
	9.605		11.910	Alma-Ata	4.545
	9.655		11.915		4.990
	9.735		11.920		5.035
	9.740		11.945		5.260
	11.865		11.955		6.135
	11.950		15.110		9.090
	11.965		15.160		9.150
	15.110		15.205		9.250
	15.190		15.225		9.380
	15.240		15.235		10.530
	15.245		15.245		13.810
	15.395		15.250	Arkhangelsk	5.930
	17.800		15.260	Armavir	9.520
	17.820		15.280		12.000
	17.850		15.290		17.775
	17.885		15.315		17.890
	21.490		15.330		21.510
	21.610		15.370		21.615
	21.630		15.380		21.645
Fort Collins	15.000		15.395		21.725
	20.000		15.400	Ashkhabad	4.825
Greenville,			15.410		4.895
N. Carolina	5.995		15.415		6.065
	6.020		15.430		15.185
	6.030		17.705	Astrakhan	15.380
	6.055		17.710	Baku	4.656
	6.060		17.790		4.785
	6.065		17.795		4.955
	6.125		17.800		6.110
	6.190		17.805		6.195
	6.873		17.815		9.840
	7.651		17.830		21.640
	9.525		17.845	Blagoveshchensk	
	9.530		17.855		4.975
	9.560		17.870		7.185
	9.635		17.880		15.170
	9.640		17.890		15.195
	9.650		17.895	Chimkent	4.310
	9.670		18.275	Chita	4.855
	9.725		19.721		5.052
	9.770		19.725		6.060
	10.254		21.510		9.655
	10.454		21.600	Dyushambe	4.635
	11.705		21.605		4.975
	11.710		21.640		6.105
	11.740		21.660		7.330
	11.760		21.740		11.990
	11.790		25.800		17.700
	11.805		25.950	Erevan	4.040

U. S. S. R. —cont.	MHz		MHz		MHz
Erevan	4. 930	Kazan	15. 320	Leningrad	21. 600
	5. 740		17. 720		21. 730
	7. 270	Khabarovsk	4. 405	Lvov	6. 155
	9. 685		6. 020		7. 150
	11. 765		7. 285		7. 160
	21. 505		9. 645		9. 765
Frunze	4. 010		9. 790		15. 170
	11. 790		10. 865		15. 175
	11. 820		11. 815		21. 565
	15. 100		11. 870	Magadan	4. 040
	15. 415		21. 630		4. 820
	17. 785	Kharkov	11. 950		5. 940
	17. 825	Khanty			10. 870
	21. 515	Mansiysk	4. 520		7. 380
	21. 530	Kherputchi	15. 125	Minsk	5. 940
	21. 555	Kiev	4. 940		7. 260
	21. 625		6. 020		7. 275
Garovka	15. 255		6. 165		7. 320
Gorki	11. 860		7. 230		9. 655
	15. 265	Komsomolsk	6. 080		9. 660
	15. 385		7. 280		11. 745
Guryev	4. 565		11. 980		15. 150
Irkutsk	6. 050		15. 375		21. 585
	6. 090		17. 890	Moscow	4. 860
	9. 350	Krasnoyarsk	6. 015		5. 740
	9. 555		7. 130		5. 900
	9. 725		7. 200		5. 910
	11. 905		7. 265		5. 960
	11. 910		7. 295		5. 975
	15. 105		9. 515		6. 000
	15. 285		9. 620		6. 010
	15. 400		11. 780		6. 020
	17. 730		11. 835		6. 045
	17. 805		11. 860		6. 130
Ivanofrankovsk	9. 665		11. 940		6. 145
	9. 760		15. 320		7. 100
	15. 190		17. 700		7. 135
Kalatch	15. 200		17. 755		7. 155
	21. 655		21. 670		7. 170
Kallinin	15. 470	Kursk	11. 775		7. 190
	21. 635		17. 745		7. 205
Kaunas	5. 960		17. 750		7. 215
	11. 870		17. 860		7. 220
	15. 325		21. 540		7. 235
	17. 885	Kzyl Orda	4. 100		7. 280
	17. 895	Leningrad	4. 780		7. 290
Kazan	6. 175		6. 655		7. 295
	9. 580		9. 520		7. 315
	9. 645		9. 765		7. 340
	11. 805		11. 630		7. 350
	11. 845		11. 700		7. 360
	11. 850		11. 755		7. 370
	11. 965		11. 765		7. 390
	15. 250		15. 245		7. 400
	15. 260		15. 375		7. 420

U. S. S. R. —cont.	MHz		MHz		MHz
Moscow	7. 440	Moscow	15. 270	Orenburg	21. 495
	9. 450		15. 360	Petropavlovsk	4. 055
	9. 470		15. 410		6. 190
	9. 480		15. 420		9. 540
	9. 490		15. 425		11. 690
	9. 530		15. 430		15. 140
	9. 550		15. 460		15. 180
	9. 565		15. 780		17. 880
	9. 620		16. 250	Petrozavodsk	5. 065
	9. 625		17. 705		7. 300
	9. 640		17. 710	Riazan	6. 185
	9. 650		17. 735		8. 265
	9. 670		17. 790		9. 570
	9. 685		17. 800		9. 720
	9. 695		17. 825		11. 790
	9. 700		17. 830		11. 890
	9. 730		17. 835		11. 970
	9. 740		17. 840		15. 140
	9. 745		17. 850		15. 440
	9. 775		17. 865	Riga	7. 140
	9. 780		17. 870		12. 020
	9. 800		17. 900		15. 220
	9. 810		17. 910		17. 715
	9. 818		19. 725		21. 615
	9. 850		21. 575	Semipalatinsk	4. 080
	10. 190	Murmansk	21. 610	Serpukhov	5. 990
	10. 620		11. 820		7. 190
	10. 740	Novosibirsk	15. 300		9. 560
	11. 198		4. 885		9. 605
	11. 570		7. 145		9. 630
	11. 575		7. 170		11. 700
	11. 590		7. 300		11. 705
	11. 590		9. 690		11. 955
	11. 615		11. 740		11. 960
	11. 710		11. 825		12. 010
	11. 750		15. 310		15. 450
	11. 770		17. 740		17. 730
	11. 795		17. 855		17. 795
	11. 800		21. 475		21. 675
	11. 830	Omsk	6. 145	Simferopol	6. 030
	11. 840		7. 110		11. 810
	11. 865		9. 590		15. 115
	11. 875		9. 665		17. 815
	11. 880		9. 765	Starobelsk	7. 175
	11. 895		11. 725		17. 725
	11. 920		15. 150	Sverdlovsk	6. 120
	11. 930		15. 275		11. 720
	11. 935		15. 280		11. 760
	11. 975	Orcha	7. 105		11. 785
	12. 015		9. 755		11. 900
	12. 055		11. 715		11. 945
	12. 100		11. 985		15. 130
	14. 860	Orenburg	9. 715		15. 180
	15. 160		11. 915		15. 240
	15. 210		15. 480		15. 330
	15. 215		15. 490		15. 340

	MHz		MHz		MHz
U. S. S. R. —cont.		Vladivostok	11.755	Barquisimeto	4.800
Sverdlovsk	15.370		11.990		4.900
	15.405		12.040		4.940
	17.845	Volgograd	6.075		4.990
	17.890	Vologda	15.350		9.510
Tallin	6.055	Voronezh	9.675	Bocono	5.009
	6.085		12.045	Caracas	3.245
	17.805		12.060		3.345
	21.715		15.225		4.780
Tashkent	4.850		15.230		4.880
	5.925		15.295		4.890
	5.970		15.305		4.920
	6.125	Yakutsk	4.395		4.960
	6.180	VATICAN STATE			4.970
	9.540	Vatican City	6.145		5.020
	9.600		6.190		5.030
	11.925		7.160		5.050
	15.395		7.220		6.110
	15.440		7.250		6.130
Tbilisi	5.040		9.540		6.170
	5.980		9.580		11.725
	9.725		9.605		15.395
	11.755		9.615	Cuidad Bolivar	4.772
	11.820		9.630	Coro	4.950
	11.900		9.645	Lara	4.800
	15.335		9.670	Maracaibo	4.810
Tula	7.110		9.690		4.860
	7.120		9.765		4.910
	7.145		9.770		5.040
	7.160		11.700	Maturin	3.325
	7.195		11.705		3.355
	7.240		11.730	Merida	3.395
	7.250		11.785	Portenza	4.790
	9.505		11.885	San Antonio	4.760
	9.735		11.895	San Cristobal	4.930
	12.030		11.905		4.980
	15.135		15.120		9.570
	15.145		15.135	Tachira	4.830
	17.880		15.155	Trujillo	3.295
	21.460		15.185	Valera	4.840
	21.490		15.200	VIETNAM (NORTH)	
Tyumen	4.895		15.210	Dalat	6.115
Ulan Ude	4.795		15.255	Hanoi	4.684
Uralsk	4.873		15.285		5.985
Vilnius	6.200		17.730		6.000
Vinnitsa	11.730		17.840		6.675
	11.735		17.860		7.145
	11.785		17.885		7.215
	15.235		21.485		7.290
	15.365		21.525		9.430
Vladivostok	5.015		21.560		9.530
	6.095		21.570		9.840
	6.130		21.690		11.760
	6.165		21.700		11.775
	7.210	VENEZUELA			11.780
	9.770	Apure	4.820		11.840

	MHz		MHz		MHz
Vietnam (North)—cont.		Grenada	11.700	Belgrade	9.505
Hanoi	15.018/19		11.975		9.620
VIETNAM (SOUTH)			15.088		11.735
Hue	9.670		15.100		11.740
	15.150		15.105		11.745
Saigon-Cholon	5.950		21.515		11.760
	6.160		21.690		11.855
	7.175	YEMEN			15.240
	7.245	Sanaa	4.937	ZAMBIA	
	9.580		5.545	Lusaka	3.270
	9.620		5.950		3.346
	9.755		9.976		4.911
	11.950	YUGOSLAVIA			4.965
	15.330	Belgrade	6.100		
	15.365		6.150		
WINDWARD IS.			7.200		
Grenada	3.280		7.240		

EUROPEAN
V. H. F. SOUND BROADCASTING STATIONS

This list includes only those transmitters in Europe with an e. r. p. of 100 kW or more, except in the case of the U.K. where all stations are listed. There are in addition nearly 3,000 lower powered transmitters in Europe of which over 1,400 are in Italy. The carrier frequencies of the channel numbers in the first column are given on p. 160.

AUSTRIA	kW	GERMANY (East)	kW
6 Lichtenberg	100	13 Marlow	100
7 Schoeckl	100	15 Brocken	100
13 Gaisberg	100	16 Sonneberg	100
14 Schoeckl	100	17 Leipzig	100
26 Gaisberg	100	24 Sonneberg	100
27 Lichtenberg	100	27 Schwerin	100
28 Schoeckl	100	32 Leipzig	100
33 Jauerling	100	34 Inselsberg	100
35 Lichtenberg	100	35 Brocken	100
40 Gaisberg	100	Berlin	100
		38 Schwerin	100
EIRE		GERMANY (West)	
9 Truskmore	120	3 Götteleborner Hoehe	100
22 Mullaghanish	120	4 Bremen	100
24 Maghera	120	6 Gruenten/Allgaeu	100
26 Mount Leister	120	Heidelberg	100
		Langenberg	100
FRANCE		8 Wendelstein	100
4 Carcassonne	125	10 Harz	100
6 Lille	150	Stuttgart	100
7 Le Mans	100	12 Gruenten/Allgaeu	100
Reims	150	Ochsenkopf	100
8 Limoges	150	Teutoburger Wald	100
10 Rennes	100	14 Götteleborner Hoehe	100
12 Nantes	200	17 Brotjacklriegel	100
13 Carcassonne	125	Harz	100
14 Niort	200	Stuttgart	100
17 Rouen	100	20 Kreuzberg/Rhoen	100
19 Le Mans	100	21 Teutoburger Wald	100
20 Limoges	150	22 Wendelstein	100
22 Rennes	100	23 Bremen	100
23 Rouen	100	Waldenburg	100
24 Nantes	200	26 Stuttgart	100
26 Lille	150	27 Langenberg	100
31 Niort	200	28 Götteleborner Hoehe	100
32 Carcassonne	125	30 Ochsenkopf	100
Rouen	100	32 Brotjacklriegel	100
33 Reims	150	Waldenburg	100
Le Mans	100	33 Teutoburger Wald	100
35 Limoges	150	36 Heidelberg	100
37 Lille	150	37 Harz	100
38 Rennes	100	38 Kreuzberg/Rhoen	100
39 Reims	150	39 Waldenburg	100
40 Nantes	200	41 Langenberg	100
41 Niort	200	43 Heidelberg	100
		51 Stuttgart (AFN)	100

	kW		kW
LUXEMBOURG			
33 Marnach	100	(7) Melvaig	22
		Pitlochry	200W
NETHERLANDS		Wrotham	120
4 Roermond	100	8 Fort William	1.5
13 Roermond	100	Haverfordwest	10
25 Roermond	100	Holme Moss	120
		Machynlleth	60W
NORWAY		Orkney	20
5 Oslo	100	Oxford	22
22 Bokn	100	Penifiler	6W
		Perth	15W
UNITED KINGDOM		Ventnor	20W
4 Ballachulish	15W	9 Grantown	350W
Betws-Y-Coed	10W	Hereford	25W
Bressay	10	Kinlochleven	2W
Brighton*	75W	Llandona	12
Campbeltown	35W	Redruth	9
Ffestiniog		Rosemarkie	12
Forfar	10	Swaledale	35W
Llanidloes	5W	Tacolneston	120
Lochgilphead	10W	Weardale	100W
Londonderry	13	Whitby	40W
North Hessary Tor	60	10 Brighton	150W
Sandale	120	Divis	60
Sutton Coldfield	120	Dolgellau	15W
Wensleydale	25W	Kirk O'Shotts	120
5 Barnstaple	150W	Morecambe Bay	4
Carmarthen	10W	Peterborough	20
Douglas	6	Scarborough	25W
Newry	30W	Sheffield	60W
Pontop Pike	60	Swingate	7
Rowridge	60	Thrumster	10
Sheffield*	30W	Wenvoe	120
Skriaig	10	11 Ballachulish	15W
Toward	250W	Betws-Y-Coed	10W
6 Bath	35W	Campbeltown	35W
Belmont	8	Ffestiniog	-
Blaen-Plwyf	60	Llanidloes	5W
Brecon	10W	North Hessary Tor	60
Brougher Mountain	2.5	Sandale	120
Cambridge	20W	12 Barnstaple	150W
Isles of Scilly	20W	Bressay	10
Kendal	25W	Carmarthen	10W
Kilkeel	25W	Douglas	6
Llangollen	10	Forfar	10
Maddybenny More	30W	Lochgilphead	100W
Meldrum	60	Londonderry	13
Northampton	60W	Pontop Pike	60
Oban	1.5	Rowridge	60
Okehampton	15W	Skriaig	10
7 Ashkirk	18	Sutton Coldfield	120
Ballycastle	40W	Toward	250W
Churchdown Hill	25W	Wensleydale	25W
Kingussie	35W	13 Bath	35W
Larne	15W	Belmont	8
Llandrindod Wells	1.5	Blaen-Plwyf	60

United Kingdom—cont.		kW		kW	
(13)	Isles of Scilly	20W	(18)	Swingate	7
	Kendal	25W		Thrumster	10
	Kilkeel	25W	19	Betws-Y-Coed	10W
	Maddybenny More	30W		Bressay	10
	Meldrum	60		Campbeltown	35W
	Newry	30W		Douglas	6
	Okehampton	15W		Forfar	10
14	Ashkirk	18		Lochgilphead	10W
	Ballycastle	40W		Londonderry	13
	Brecon	10W		Sutton Coldfield	120
	Brougner Mountain	2.5		Wensleydale	25W
	Cambridge	20W	20	Barnstaple	150W
	Churchhill Down	25W		Belmont	8
	Kingussie	35W		Blaen-Plwyf	60
	Larne	15W		Carmarthen	10W
	Les Platons	1.5		Kendal	25W
	Llandrindod Wells	1.5		Maddybenny More	30W
	Llangollen	10		Meldrum	60
	Melvaig	22		Newry	30W
	Northampton	60W		Okehampton	15W
	Oban	1.5		Pontop Pike	60
	Wrotham	120		Rowridge	60
15	Fort William	1.5		Skriaig	10
	Haverfordwest	10		Toward	250W
	Holme Moss	120	21	Ballycastle	40W
	Machynlleth	60W		Bath	35W
	Orkney	20		Brecon	10W
	Perth	15W		Brougner Mountain	2.5
	Pitlochry	200W		Cambridge	20W
	Ventnor	20W		Churchdown Hill	25W
16	Hereford	25W		Isles of Scilly	20W
	Kinlochleven	2W		Kilkeel	25W
	Llandona	12		Llangollen	10
	Oxford	22		Northampton	60W
	Penifiler	6W		Oban	1.5
	Redruth	9	22	Ashkirk	18
	Rosemarkie	12		Fort William	1.5
	Swaledale	35W		Haverfordwest	10
	Tacolneston	120		Holme Moss	120
	Weardale	100W		Kingussie	35W
	Whitby	40W		Larne	15W
17	Grantown	350W		Llandrindod Wells	1.5
	Kirk O'Shotts	120		Melvaig	22
	Morecambe Bay	4		Orkney	20
	Scarborough	25W		Perth	15W
	Sheffield	60W		Pitlochry	200W
	Wenvoe	120		Wrotham	120
18	Ballachulish	15W	23	Llandona	12
	Brighton	150W		Machynlleth	60W
	Divis	60		Oxford	22
	Dolgellan	15W		Penifiler	6W
	Ffestiniog	—		Rosemarkie	12
	Llanidloes	5W		Swaledale	35W
	North Hessary Tor	60		Ventnor	20W
	Peterborough	20		Whitby	40W
	Sandale	120	24	Grantown	350W

United Kingdom—cont.		kW			kW
(24)	Hereford	25W	(25)	Peterborough	20
	Kinlochleven	2W		Swingate	7
	Kirk O'Shotts	120		Thrumster	10
	Redruth	9	26	Les Platons	1.5
	Scarborough	25W		Nottingham*	140W
	Sheffield	60W		Sandale	120
	Tacolneston	120		Stoke on Trent*	2.5
	Weardale	100W	27	Leicester*	140W
	Wenvoe	120		Rotherham*	9W
25	Brighton	150W	30	Merseyside*	2.5
	Divis	60		Oxford	22
	Dolgellau	15W	33	Durham*	2.6
	Leeds*	140W		Wenvoe	120
	Morecambe Bay	4	34	Les Platons	1.5

*B. B. C. Local Radio stations.

EUROPEAN V. H. F. SOUND BROADCASTING CHANNELS

Channel	MHz	Channel	MHz
2	87.6	30	96.0
3	87.9	31	96.3
4	88.2	32	96.6
5	88.5	33	96.9
6	88.8	34	97.2
7	89.1	35	97.5
8	89.4	36	97.8
9	89.7	37	98.1
10	90.0	38	98.4
11	90.3	39	98.7
12	90.6	40	99.0
13	90.9	41	99.3
14	91.2	42	99.6
15	91.5	43	99.9
16	91.8	44	100.2
17	92.1	45	100.5
18	92.4	46	100.8
19	92.7	47	101.1
20	93.0	48	101.4
21	93.3	49	101.7
22	93.6	50	102.0
23	93.9	51	102.3
24	94.2	52	102.6
25	94.5	53	102.9
26	94.8	54	103.2
27	95.1	55	103.5
28	95.4	56	103.8
29	95.7		

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