Guide to Broadcasting Stations

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Wireless World

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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

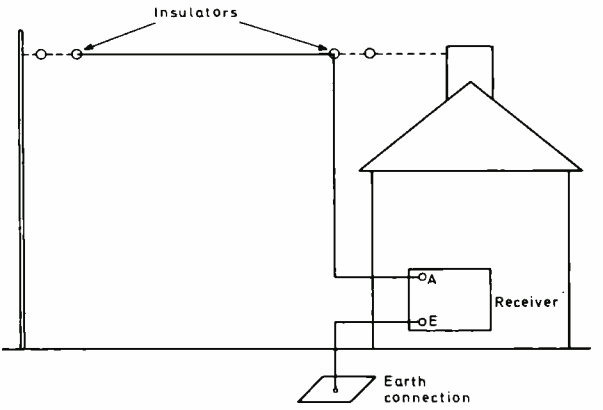
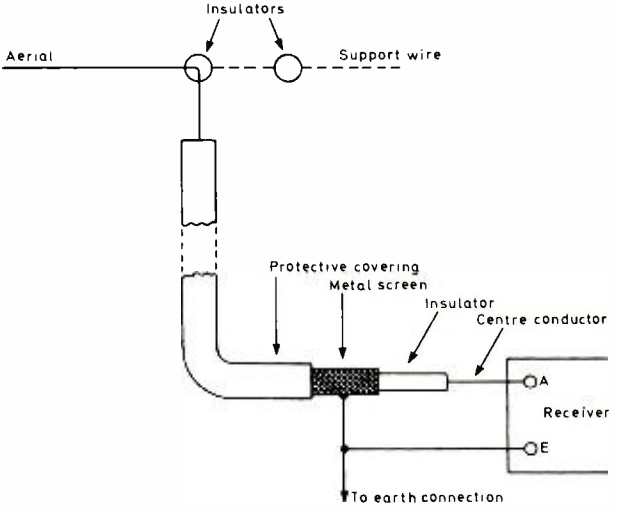


Fig. 1. Inverted-L aerial (a)



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

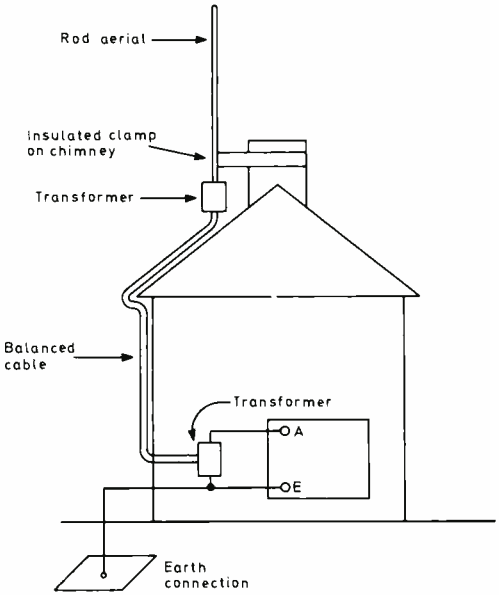


Fig. 2. Vertical rod aerial

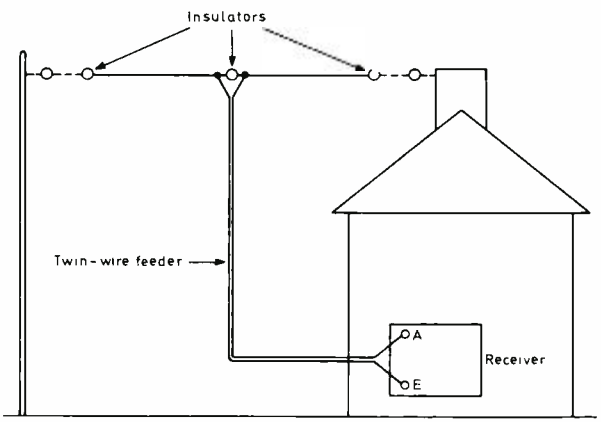


Fig. 3. Simple dipole aerial

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

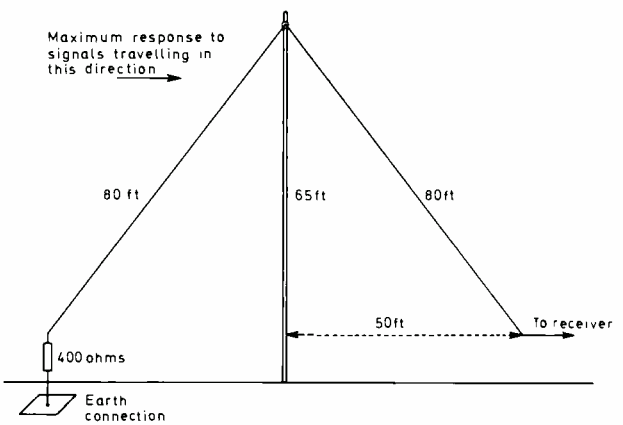


Fig. 4. Inverted-V aerial

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

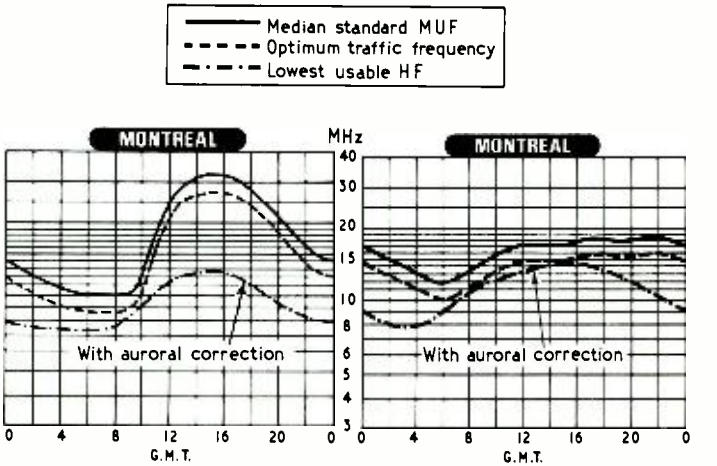


Fig. 5. Examples of HF Prediction Curves for the UK-Montreal path (a) for February and (b) for July. The optimum traffic frequency is taken as 85% of the MUF. Unlike the MUF, the LUF curves are for commercial telegraphy and assume the use of transmitters of several kilowatts and rhombic aerials. The 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 Moviemento
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	Donebach (Mainflingen),		
(1987)	Germany (W.)	70	Deutschlandfunk
	Moscow, U.S.S.R.	50	
155	Tromso, Norway	10	
(1935)	Brasov, Rumania	1200	1st Programme
	Blagoveshchensk, U.S.S.R.		
164	Allouis, France	1100	France-Inter/Jeunesse
(1829)			
	Tashkent, U.S.S.R.	50	
173	Munich, Germany (W.)		
(1734)	*Chita, U.S.S.R.*		
	Moscow, U.S.S.R.	500	
180	Saarlouis, Germany (W.)	1000	"Europe No. 1"
(1667)			
182	Lulea, Sweden	10	1st Programme
(1648)	Ankara, Turkey	240	Main Programme
	Alma-Ata, U.S.S.R.	50	
	Petropavlovsk, U.S.S.R.*		
185	Oranienburg, Germany (E.)	750	Deutschlandsender
(1622)			
191	Motala, Sweden	600	1st Programme
(1571)	*Birobidzhan*, U.S.S.R.*	50	
	Tbilisi, U.S.S.R.	50	
200	Droitwich, U.K.	400	Radio 2
(1500)	*Ashkhabad*, U.S.S.R.*		
	Irkutsk, U.S.S.R.	100	
	Kazan, U.S.S.R.		
	Leningrad, U.S.S.R.	100	
	Moscow, U.S.S.R.	100	
209	Eidar, Iceland	20	
(1435)	Reykjavik, Iceland	100	
	Azilal, Morocco	400	
	Kiev, U.S.S.R.	150	1st Programme
	Khabarovsk, U.S.S.R.*		
	Tselinograd, U.S.S.R.*		
218	Monte Carlo, Monaco	1200	Radio Monte Carlo
(1376)	Oslo, Norway	200	
	Baku, U.S.S.R.	50	
	Krasnoyarsk, U.S.S.R.	50	
227	Warsaw, Poland	500	1st Programme
(1322)	*Alma-Ata, U.S.S.R.*	50	
	Akmolinsk, U.S.S.R.*		
	Ulan Bator, U.S.S.R.*		
233	Luxembourg (Junglinster),	600/	
(1293)	Luxembourg	1100	1st Programme
236	Leningrad, U.S.S.R.	100	1st Programme
(1271)	*Magadan*, U.S.S.R.*		
	Moscow, U.S.S.R.	100	
245	Kalundborg, Denmark	150	1st Programme
(1224)	*Ezurun, Turkey*	200	1st Programme
	Vladivostok, U.S.S.R.	100	
254	Lahti, Finland	200	
(1181)			

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

kHz (Metres)	Station and Country	kW	Programme
520	Bayreuth, Germany (W.)	0·2	Bayerischer Rundfunk
(577)	Hanover, Germany (W.)	5	Norddeutscher Rundfunk
contd	Passau, Germany (W.)	0·2	Bayerischer Rundfunk
	Würzburg, Germany (W.)	0·2	Bayerischer Rundfunk
	Röros, Norway	0·25	
529	Ain Beida, Algeria	2 × 300	
(567)	Schwerin, Germany (E.)	20	DDR 1
	Beromünster, Switzerland	150	German language
530	*Cheboksary, U.S.S.R.*		
(566)			
539	Bayonne*, France	0·05	France—Culture
(557)	Budapest, Hungary	135	Kossuth Radio
540	*Grand Falls, Canada*	10	
(555)			
548	Oran, Algeria	600	Arabic language
(547)	Braunschweig, Germany (W.)	400/800	Deutschlandfunk
	Oviedo, Spain	50	R.N.E.
	Leningrad, U.S.S.R.	100	Moscow 2nd, 3rd and International Service
	Odessa, U.S.S.R.		
	Vladivostok, U.S.S.R.*	100	
557	Touggourt, Algeria	1	Arabic/French language
(539)	Helsinki, Finland	100	1st Programme
	Greifswald, Germany (E.)	10	DDR 1
	Faro, Portugal	1	
	Guarda, Portugal		
	Bucharest (Kherastrau), Rumania	5	1st Programme
	Monte Ceneri, Switzerland	50	Italian language
	Cairo III (Abu Zabaal), UAR (Egypt)	50	Foreign language programme
	Volgograd, U.S.S.R.	10	
560	*Peking, China*		
(535)			
566	Bad-Ischl, Austria	0·05	1st Programme
(530)	Feistritz Drau, Austria	0·1	1st Programme
	Greifenburg, Austria	0·05	1st Programme
	Mühlbach, Austria	0·05	1st Programme
	Neukirchen, Austria	0·05	1st Programme
	Radstadt, Austria	0·05	1st Programme
	Sofia*, Bulgaria		
	Athlone, Eire	100	
	Bologna, Italy	5	1st Programme
	Caltanissetta, Italy	25	1st Programme
	Salento, Italy	5	1st Programme
	Berlin, Germany (W.)	20	Sender Freies Berlin 1
	Valencia do Minho, Portugal		
	Homs, Syria	300	
570	*Santa Clara, Cuba*	10	Radio Rebelde
(526)	*Godthaab (Kook Is.), Greenland*	25	
575	Leipzig, Germany (E.)	100	DDR 1
(522)	Stuttgart, Germany (W.)	300	Süddeutscher Rundfunk
	Jerusalem, Israel	50	Kol Israel

kHz (Metres)	Station and Country	kW	Programme
575 (522) *contd*	Riga, U.S.S.R.	100	1st Programme
580 (517)	*Teheran, Iran*	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
	Ijevsk, U.S.S.R.		
590 (508)	*St. Johns, Canada*	10	
	Havana, Cuba	25	Radio Rebelde
	Nagpur, India	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
	Kaduna, Nigeria	250	
	Sundsvall, Sweden	150	1st Programme
	Ordzhonikidze, U.S.S.R.*		
600 (500)	*Seoul (Suwon), Korea (S.)*	100	
	Riyadh, Saudi Arabia	1000	
602 (498)	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-Kopenick, Germany (E.)	250	Berliner Rundfunk
	Grafenwöhr, Germany (W.)	10	AFN
	Kaiserslautern, Germany (W.)	10	AFN
	Nüremburg, Germany (W.)	10	AFN
	Sebaa Aioun, Morocco	140	Arabic language
	Krasnodar, U.S.S.R.	20	
	Petrozavodsk, U.S.S.R.	100	
	Frunze, U.S.S.R.	25	
	Sarajevo, Yugoslavia	100	Radio Sarajevo
620 (484)	Brussells (Wavre), Belgium	150	French Network
	Grand Falls, Canada	10	
	Santa Cruz Teneriffe, Canary Is.	100	RNE
	Peking, China		
	Enugu, Nigeria*	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	Erfurt, Germany (E.)		
(477)	*Monrovia, Liberia*	20	DDR 1
contd	Vigra, Norway	10	Voice of Liberia
	Timisoara, Rumania	100	
	Tunis (Djedeida), Tunisia	30	2nd Programme
	Khabarovsk*, U.S.S.R.	600	
	Mersin (Cukerova), Turkey	300	
	Khabarovsk*, U.S.S.R.		
630	Lahore, Pakistan	100	Radio Pakistan
(476)			
638	Limassol (Zyghi), Cyprus	100	BBC E.Med.Relay
(470)	Prague, Czechoslovakia	150	Prague Programme
	La Coruna, Spain	100	RNE
	Benin City, Nigeria*		
	Dar es Salaam, Tanzania	100	Radio Tanzania
640	*St. Johns, Canada*	10	
(469)	*Havana, Cuba*	50	
645	*Peking, China*		
(465)	*Tabriz, Iran*	100	
647	Daventry, U.K.	150	European Service
(464)	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	*Jeddah/Riyadh, Saudi Arabia*	150	
(462)			
650	Lages-Terceira, Azores	0·3	Portugues Air Forces
(461)	*Godhavn, Greenland*	5	
	Indore, India	20	
	Maracay, Venezuela	50	Radio Giradot
655	*Pyongyang, Korea (N.)*		
(458)			
656	El Aaiun, Spanish Sahara	2	Radio Sahara
(457)	Potsdam, Germany (E.)	20	Berliner Rundfunk
	Tel Aviv, Israel	100/ 20	Kol Israel
	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
	Ibadan, Nigeria	10	
	Groznyi, U.S.S.R.		
	Murmansk, U.S.S.R.	150	Radio Moscow
660	*Kabul, Afghanistan*	20	R. Afghanistan
(455)	*New York, U.S.A.*	50	
	Coro, Venezuela	10	Ondas las Medanos
665	Rohrdorf, Germany (W.)	300	Sudwestfunk
(451)	Athens III, Greece	15	Third Programme

kHz (Metres)	Station and Country	kW	Programme
665	Hófn, Iceland	5	
(451)	Lisbon I, Portugal	135	
contd	Damascus (Sabbourah), Syria	50	
	Kaunas/Vilnius I, U.S.S.R.	100	Vilnius 1
670	*Calcutta, India*	10	
(448)	*Caracas, Venezuela*	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	
	Doha, Qatar*	10	
	Chernovtsy, U.S.S.R.	100	
677	Jerusalem, Jordan/Israel	200	
(443)			
680	*Resht, Iran (Persia)*	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	*Peking, China*		
(434)	*Dacca, Pakistan*		
	Barquisimeto, Venezuela	50	R. Barquisimeto
692	Bouira, Algeria	1	
(433)	Michelet, Algeria	5	Kabyl Programme
	Nicosia, Cyprus	20	
	Suhl Wachenbrünn, Germany (E.)	250	Deutschlandsender
	Viseu, Portugal	1	
	Ufa, U.S.S.R.	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 (428) contd	Lingen-Ems, Germany (W.)	2	Norddeutscher Rundfunk
	Siegen, Germany (W.)	2	Westdeutscher Rundfunk
	Sebaa Aioun, Morocco	140	French, English and Spanish Programmes
	Finnmark (Vadso), Norway	20	
	Istanbul, Turkey	150	
708 (423)	Cairo II (Asyut), UAR (Egypt)	100	Voice of Arabs
710 (423)	Rennes, France	150	France-Inter/Varietes
	Jerusalem, Israel	1	Kol Israel
	New York, U.S.A.	50	
	Donetsk, U.S.S.R.	150	
	Tallinn, U.S.S.R.	150	Tallinn II
	Vladivostok, U.S.S.R.*		
	Caracas, Venezuela	5	La Voz del la Patria
719 (417)	Limassol (Zyghi), Cyprus	100	BBC E.Med.Relay
	Munich (Holzkirchen), Germany (W.)	150	Radio Free Europe
	Porto, Portugal	100	Programme II
	Ostersund, Sweden	150	1st Programme
	Sfax, Tunisia	100	
720 (416)	*Colon, Cuba*	30	Radio Rebelde
723 (415)	*Jeddah, Saudi Arabia*	50	
724 (414)	*Paramaribo, Surinam*	50	
728 (412)	Klagenfurt (Lend), Austria	25	1st Programme
	Schwerin (Wöbbelin), Germany (E.)	250	Deutschlandsender
	Athens I, Greece	150	
737 (407)	Hof (Saale), Germany (W.)	40	RIAS
	Akureyri, Iceland	5	
	Tel Aviv, Israel	200	Kol Israel
	Poznan, Poland	300	
	Barcelona, Spain	250	RNE
	Cairo, UAR (Egypt)		
	Chelyabinsk, U.S.S.R.*		
740 (405)	*Peking, China*		
746 (402)	Tlemcen, Algeria	1	Arabic and French Programmes
	Plovdiv, Bulgaria	30	
	Cottbus (Hoyerswerda), Germany (E.)	20	R.DDR. 1
	Hilversum I, Netherlands	120	1st Programme
	Ngong, Nigeria	100	Voice of Nigeria
	Aleppo (Sarakeb), Syria	20	
	Karaganda, U.S.S.R.		
750 (400)	*Minhsiung, China*	150	
755 (397)	Kuopio, Finland	20	
	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) *contd*	Timisoara, Rumania	135	2nd Programme
760	*Georgetown, Guyana*	10	Radio Demerara
(395)	*Hurriyah (Baghdad), Iraq*	300	
764	*Dakar, Senegal*	200	
(393)	Sottens, Switzerland	150	French Programme
	Odessa, U.S.S.R.	10	
770	*New York, U.S.A.*	50	
(390)	*Puerto la Cruz, Venezuela*	10	R. Puerto la Cruz
773	Bad St. Leonard, Austria	0·05	1st Programme
(388)	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)	*Zahedan, Iran*	100	Radio Zahedan
780	*Peking, China*		
(385)	*Poona, India*	5	
	Alma-Ata, U.S.S.R.		
782	Burg-Magdeburg, Germany (E.)	250	Deutschlandsender
(384)	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	Limoges, France	100	France-Inter/Varietes
(379)	Thessaloniki, Greece	50	VoA
	Astrakhan, U.S.S.R.		
800	*St. Johns, Canada*	1	
(375)	Nüremburg, Germany (W.)	100	Bayerischer Rundfunk
	Amman, Jordan	100	
	Bonaire, Neth. Antilles	500	
	Regua, Portugal	0·25	R. Alto Doura

kHz (Metres)	Station and Country	kW	Programme
800 (375) *contd*	Madrid, Spain	5	Radio Madrid SER
	Leningrad, U.S.S.R.	100	Leningrad II
809 (371)	Berlin, Germany (W.)	5	BBC European Service
	Delhi A, India	100	
	Seville, Spain	20	Radio Sevilla SER
	Burghead, U.K.	100	Radio 4 (Scottish)
	Dumfries, U.K.	2	Radio 4 (Scottish)
	Redmoss, U.K.	5	Radio 4 (Scottish)
	Westerglen, U.K.	100	Radio 4 (Scottish)
	Crowborough, U.K.	150	European Service
	Kuybychev, U.S.S.R.	10	
	Skopje, Yugoslavia	135	Radio Skopje
810 (370)	*San Juan, Puerto Rico*	25	
817 (367)	*Kyzyl*, U.S.S.R.*		
818 (367)	Andorra, Andorra	300	R. des Valees d'Andorre
	Trieste, Italy	25	1st Programme
	Casablanca, Morocco	1	Arabic Language Programme
	Warsaw (Mokotov II), Poland	300	2nd Programme
	Batra, UAR (Egypt)	450	Main Arabic Programme
820 (366)	*Cali (Buga), Colombia*	50	La Voz del Rio Cauca
	Frederikshaab, Greenland	5	
827 (363)	Sofia (Vakarel), Bulgaria	100	
	Baden-Baden, Germany (W.)	1·5	Sudwestfunk
	Freiburg, Germany (W.)	40	Sudwestfunk
	Kaiserslautern, Germany (W.)	3	Sudwestfunk
	Koblenz, Germany (W.)	0·5	Sudwestfunk
	Trier, Germany (W.)	1	Sudwestfunk
	Oudja, Morocco	100	
	Rabat, Morocco	1	
	Barcelona, Spain	5	Radio Barcelona SER
	Gorkij, U.S.S.R.	20	
830 (361)	*Karachi, Pakistan*	10	Radio Pakistan
834 (360)	*Belize, Brit. Honduras*	20	Radio Belize
836 (359)	Ponta Delgada (San Miguel), Azores	1	
	Ylivieska, Finland	10	
	Nancy, France	150	France-Inter/Varietes
	Beirut, Lebanon	120	
	Granada, Spain	5	La Voz de . . SIN
	Huelva, Spain	2	La Voz de . . CAR
	Palencia, Spain	2	La Voz de . . REM
	Kharkov/Vinnitsa, U.S.S.R.	20	
845 (355)	Safad, Israel	1	Kol Israel
	Rome, Italy	150	2nd Programme

kHz (Metres)	Station and Country	kW	Programme
845 (355) *contd*	*Elista, U.S.S.R.*	10	
850	*Ahmedabad A, India*	50	
(353)	*Montevideo, Uruguay*	50	Radio Carve
	Boston, U.S.A.	50	
854 (351)	Setif, Algeria	0·05	Arabic language Programme
	Berlin-Britz, Germany (W.)	100	RIAS
	Bucharest (Tinchebesti), Rumania	150	2nd Programme
	Murcia, Spain	125	RNE
855 (350)	*Willemstad, Curaçao, Neth. Antilles*	5	Radio Curom.
860	*Rio de Janeiro, Brazil*	50	Radio Mundial
(349)	*Halifax, Canada*	10	
	Toronto, Canada	50	
863	Blagoevgrad, Bulgaria	30	
(348)	Paris, France	150/ 250	France Culture
	Damascus, Syria	10	
	Yerevan, U.S.S.R.	100	
870	Amman, Jordan	5	
(345)	*New Orleans, U.S.A.*	50	
872	Frankfurt (Weisskirchen),		
(344)	Germany (W.)	150	AFN
	Budapest (Lakihegy), Hungary	36	Petofi Radio II
	Zaragoza, Spain	30	R. Zaragoza
	Cairo (Abu Zabaal) V, UAR (Egypt)	50	Main Arabic Programme
	Moscow, U.S.S.R.	150	Moscow III
	Perm, U.S.S.R.*		
880 (341)	*New York, U.S.A.*	50	
881	Berlin (K. Wusterhausen),		
(341)	Germany (E.)	100	R. DDR 1
	Bet Hilel, Israel	0·05	Kol Israel
	Penmon, U.K.	10	Radio 4 (Welsh)
	Towyn, U.K.	5	Radio 4 (Welsh)
	Washford, U.K.	100	Radio 4 (Welsh)
	Wrexham, U.K.	2	Radio 4 (Welsh)
	Stavropol, U.S.S.R.	20	
	Slavonski Brod, Yugoslavia	0·05	
	Titograd, Yugoslavia	20	R. Titograd
890	Algiers, Algeria	200	International Programme
(337)	Linz, Austria	20	1st Programme
	Limassol (Zighy), Cyprus	7·5	BFBS
	Bergen, Norway	20	1st Programme
	Kristiansand, Norway	20	1st Programme
	Trøndelag, Norway	20	1st Programme
	Damman, Saudi Arabia		
	Ouchgorod, U.S.S.R.	50	
899	Milan, Italy	150	1st Programme
(334)	*Yoshkar-Ola, U.S.S.R.*		

kHz (Metres)	Station and Country	kW	Programme
899 (334) *contd*	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	
	Monserrat, 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	*Enugu, Nigeria*	10	
(315)	Las Palmas, Spain	20	SER
contd	Madrid, Spain	20	R. Intercontinental
955	*Rangoon, Burma*	50	
(314)			
957	Deir el Zor, Syria	30	
(313)			
960	*Halifax, Canada*	10	The Voice of Halifax
(312)	*Omdurman, Sudan*	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	*Cuttack, India*		
(311)	Istanbul, Turkey	2	
970	*Seoul, Korea (S.)*	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)	*Rio de Janeiro, Brazil*	50	Radio Nacional
	Peking, China		
	Trieste, Italy	10	Slovak language Programme
	Göteborg, Sweden	150	Programme 1
	Alma-Ata, U.S.S.R.		
985	*Kermanshah, Iran*	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
	Gwelo, Rhodesia		
	Villa Cisneros, Spain		SER

kHz (Metres)	Station and Country	kW	Programme
998 (301) *contd*	Kishinev 'KV', U.S.S.R.	100	
1000	*Sao Paulo, Brazil*	50	Radio Record
(300)	*Chicago, U.S.A.*	50	
1007	Kerkyra (Corfu), Greece	50	
(298)	Hilversum (Lopik), Netherlands	120	2nd Programme
	Malaga, Spain	10	R. Peninsular
	Belgrade, Yugoslavia	150	R. Beograd
1010	*Coimbatore, India*		
(297)	*Hyderabad, Pakistan*	10	R. Pakistan
	New York, U.S.A.	50	
	Hanoi, Vietnam (N.)		
1016	Batna, Algeria	1	
(295)	Warnemuende (Diedrishagen), Germany (E.)		Holiday Transmission
	Mainz (Wolfsheim), Germany (W.)	300	Sudwestfunk
	Tangier, Morocco	1	
	Baku, U.S.S.R.	100	
1020	*Santa Fe, Argentina*	5/10	
(294)	*Peking, China*		Radio Peking
	Delhi, India		
	Rampur, India		
	Pittsburgh, U.S.A.		
1025	Achenkirch, Austria	0·05	2nd Programme
(293)	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	*Gauhati B, India*	10	
(291)	*Boston, U.S.A.*	50	
1034	Ansbach, Germany (W.)	0·25	AFN
(290)	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	Venice, Italy	25	2nd Programme
(290)	Porto Alto, Portugal	50	
contd	Tallinn, U.S.S.R.	100	Tallinn I
1035	Cap Haitien, Haiti	10	R. St. 4VEH
(290)			
1040	*Sao Paulo, Brazil*	50	R. Tupi de S. Paulo
(289)	*Bombay A, India*	50	
	Safi, Morocco		
1043	Aye Les Marche, Belgium	10	French Network
(288)	Dresden-Wilsdruff, Germany (E.)	250	R. DDR. 1
	Thessaloniki, Greece	5	Thessaloniki II
	Sebaa Aioun, Morocco	25	Sebaa Aioun III
	Tbilisi, U.S.S.R.	100	
1050	*Taiwan, Formosa*		
(286)	Tetuan, Morocco	20	
	New York, U.S.A.	50	
1052	Bad Goisern, Austria	0·05	Programme I
(285)	Eisenkappel, Austria	0·05	Programme I
	Gmünd, Austria	0·05	Programme I
	Hopfgarten, Austria	0·05	Programme I
	Längenfeld, 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	*Quebec, Canada*	10	
(283)	*Shiraz, Iran*	10	Radio Shiraz
	Cairo, UAR (Egypt)		
1061	Kalundborg, Denmark	60	2nd Programme
(283)	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
	Saransk, U.S.S.R.		
	Diyarbakir, Turkey	300	2nd Programme
1070	*Buenos Aires, Argentina*	110	R. El Mundo
(280)	*Sackville, Canada*	50	
	Paris II, France	100	Inter Varietes
	Mesolongion, Greece		
	Delhi, India	20	

kHz (Metres)	Station and Country	kW	Programme
1070	*Rajkot, India*		
(280)	*Alma-Ata, U.S.S.R.*		
contd	Dniepropetrovsk, U.S.S.R.	20	1/2nd Programme
	Vladivostok, U.S.S.R.		
1079	Souk Ahras, Algeria	1	
(278)	Plauen, Germany (E.)	20	Berliner Rundfunk
	Bremen, Germany (W.)	100	Radio Bremen (Day)
	Orestias, Greece		
	Lourenço Marques, Mozambique*		Programme D
	Katowice, Poland	60	
	Valencia, Spain	25	R. Peninsular
	El Minya, UAR (Egypt)	5	
	Luxor, UAR (Egypt)	5	
	Koper, Yugoslavia	6	
1080	*Belo Horizonte, Brazil*	0·25/1	Radio Minas
(278)	*Hartford, U.S.A.*	50	
1085	*R. Bayrak, Turkey*	300	
(277)			
1088	Droitwich, U.K.	150	Radio 4 (Midland)
(276)	Norwich, U.K.	7·5	Radio 4 (Midland)
	Tirana, Albania	50	
	Luanda, Angola	10	
	Grossarl, Austria	0·05	Programme I
	Schrunns, Austria	0·05	Programme I
	St. Lambrecht, Austria	0·05	Programme I
	Lagos, Nigeria	20	Radio Nigeria
	Perm, U.S.S.R.	20	
	Tashkent, U.S.S.R.		
1090	*Peking, China*		Radio Peking
(275)	Antequera, Spain	2	R. Atlantico SER
	Cabra, Spain	2	Voz de Cordoba SIN
	Baltimore, U.S.A.	50	
1093	*Kerman, Iran*	1	Radio Kerman
(274)			
1097	Bratislava-Kostolany,		
(273)	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	*Sao Paulo, Brazil*	50	R. Nac. de Sao Paulo
(272)	*Tamsui, China*	100	
	Esfahan (Mashed), Iran	10	Radio Esfahan
	Caracas, Venezuela	10	Radio Cultura
1106	Munich, Germany (W.)	100	AFN
(271)	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
1142	Bremerhaven, Germany (W.)	5	AFN
(263)	Göppingen, Germany (W.)	0·25	AFN
contd	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	*Mar del Plata, Argentina*	25/5	Radio Atlantica
(261)	*St. Johns, Canada*	10/5	
	Rawalpindi, Pakistan	10	
1151	Judenburg, Austria	1	Programme I
(261)	Marakech, Morocco	1	Marakech II
	Cluj, Rumania	50	
	Scarborough, U.K.	2	Radio 4 (North)
	Stagshaw, U.K.	100	Radio 4 (North)
1154	Ciudad Real, Spain	3	La Voz de C.R. SIN
(260)			
1155	Beni Suef, UAR (Egypt)	50	
(260)			
1160	Kardzali, Bulgaria	30	
(259)	Kolarovgrad, Bulgaria	30	
	Strasbourg, France	150	Inter Varietes
	Toledo (SER), Spain	2	Radio Toledo
	Dyushambe, U.S.S.R.		
1165	*Kars, Turkey*	2	
(258)			
1169	Heilbronn, Germany (W.)	10	Suddeutscher Rundfunk
(257)	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	*Udaipur, India*		
(257)	*Wheeling, U.S.A.*	50	
1176	*Van, Turkey*	2	
(255)			
1178	*Okinawa, Ryukyu Is.*	1000	VoA
(255)	Barcelona (RNE), Spain	20	Radio Peninsular
	Hörby, Sweden	100	Programme 1
	Aswan, UAR (Egypt)	50	
	Quena, UAR (Egypt)	10	
1180	*Rio de Janeiro, Brazil*	50	Radio Globo
(254)	*Jubbulpore, India*	50	
	Marathon Key (Florida), U.S.A.	50	Radio Marathon (VoA)
1187	Szolnik, Hungary	135	Radio Budapest II
(253)	Casablanca, Morocco	1	

kHz (Metres)	Station and Country	kW	Programme
1187	Cuenca (RNE), Spain	5	Radio Peninsular
(253)	Ponferada, Spain		R. Juv. la Voz de P
contd	Seville, Spain	5	Radio Peninsular
1190	*Peking, China*		
(252)	*Barranquila, Colombia*	5	La Voz de la Costa
	Inchon (Wonju), Korea (S.)	50	
1193	Albacete (CAR), Spain	2	Radio Juv. de Albacete
(252)			
1195	*Dhahran, Saudi Arabia*		Aramco Radio
(251)			
1196	Munich, Germany (W.)	300	VoA
(251)	Agadir, Morocco	20	Berber Programme
	Portalegre, Portugal	1	
	Alexandria, UAR (Egypt)	10	
1200	*Minhsiung, China*	100	
(250)	*Caracas, Venezuela*	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	*Peking, China*		
(248)	Agrinion*, Greece		
	Philadelphia, U.S.A.	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	*Rio de Janeiro, Brazil*		
(246)	*Moncton, Canada*	10	
	Peking, China		
	Cleveland, U.S.A.	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	*Rosario, Argentina*	15	Radio Splendid
(244)	*Peking, China*		
	Bombay, India	50	
	Riyadh, Saudi Arabia		
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	*Varanasi, India*	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	*Matane, Canada*	5/10	
(240)	Cork, Eire	10	Radio Eireann
	Dublin, Eire	10	Radio Eireann
	Sangli, India	20	
	Balatonszabadi, Hungary	135	
	Hilversum (Lopik), Netherlands	10	Hilversum III
	Khabarovsk, U.S.S.R.		"Mayak"
1259	Rhodes, Greece	150	VoA
(238)	Wroclaw, Poland	50	
	Zielona Gora, Poland	30	
	Valencia, Spain	3·5	Radio Valencia SER
1260	*Boston, U.S.A.*	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	*Buenos Aires, Argentina*	30/5	R. Prov. de BA, La Plata
(236)	*Goiania, Brazil*	10	R. Brasil Central
	Sydney, Canada	10	
	Agartala, India	10	
	Kanghwa Do, Korea	50	Voice of UN Command

kHz (Metres)	Station and Country	kW	Programme
1277	Strasbourg, France	100	France Culture
(235)	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	*Kabul (Tscharchi), Afghanistan*	100	Radio Kabul
(234)	*Rio de Janeiro, Brazil*	50	Radio Tupi
	Quebec, Canada	10/5	
1286	Prague, Czechoslovakia	100	Ceskoslovensko I
(233)	Rimavskia-Sobota, Czechoslovakia	2	Ceskoslovensko I
	Tel Aviv, Israel	7·5	Galei Zahal
	Lisbon, Portugal	2	R. Renascenca
1295	Rabat, Morocco	0·250/	
(232)		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	*Moncton, Canada*	5	
(231)	*Parbhani, India*	20	
1302	Antalaya, Turkey	600	1st Programme
(230)			
1304	Constantine, Algeria	20	2nd Programme
(230)	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	*Baghdad, Iraq*	20	
(230)	Adana, Turkey	2	
1310	*Peking, China*		
(229)	*Fort de France, Martinique*	50	ORTF
	Portland, U.S.A.	5	
1313	Tirana*, Albania		
(228)	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	Liezen, Austria	0·05	Regional
(228)	Maria Pfarr, Austria	0·05	Regional
contd	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	Scutari, Albania	0·2	
(227)	*Enugu, (Nigeria)*	10	
	New Glasgow, Canada	5	
	Taiwan, Formosa	1	
	Rampur, India	10	
1322	Leipzig (Wiederau), Germany (E.)	150	Radio Vltava + Soviet
(227)			Military Pr.
	Safi, Morocco	1	2nd Programme
	Santarem, Portugal	0·15	R. Ribatejo
1323	Athens, Greece	20	FAG
(227)			
1325	*Teheran, Iran*	100	Radio Iran
(226)			
1330	*Bikaner, India*	20	
(225)			
1331	Aosta, Italy	2	1st Programme
(225)	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	*Belo Horizonte, Brazil*	25/5	Radio Guarani
(224)	*Peking, China*		
	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	*Kuwait, Kuwait*	1/200	
(223)			

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	Petoefi Radio I
	Szolnik, Hungary	2	Petoefi 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 Tsahal
	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
	Vinnitsa, U.S.S.R.		
1380 (217)	Santiago, Chile	50	R. Cruz del Sur
1385	Athens, Greece	50	2nd Programme
(217)	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	Tirana, Albania		
(215)	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
	Gmünd, 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
	Crailsheim, 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
contd	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
	Vänersberg, 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
	Montpelier, 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	
	Conakry, Guinea	4	
1405 (214)	Santiago Compostelo, Spain	2	Radio Galicia SER
1412	Helsinki, Finland	2	2nd Programme
(212)	Turku, Finland	0·4	2nd Programme
	Bad Mergentheim, Germany (W.)	3	Suddeutscherundfunk
	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 (212)	Ciudad Real, Spain	2	R. Ciudad Real SER
1418 (211)	Oradea, Rumania	6	2nd Programme
1421	Algiers, Algeria	40	3rd Programme
(211)	Zyyi, 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	
contd			
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	*Phnom Penh, Cambodia*	120	
(209)			
1439	Luxembourg (Marnach),		
(208)	Luxembourg	600	Luxembourg II
	Syktyvkar, U.S.S.R.		
1440	*Ottawa, Canada*	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	Palermo, Italy	12·5	2nd Programme
(207)	Perugia, Italy	1	2nd Programme
contd	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
	Halsingborg, 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
	Umea, Sweden	2	1st Programme
	Vasteras, Sweden	2	1st Programme
	Visby, Sweden	0·5	1st Programme
1454	Benghazi, Libya		
(206)			
1457	Amstetten, Austria	0·05	1st Programme
(206)	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 1
	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	*Huhehot, China*		
(205)	*Peking, China*		
1466	Monte Carlo (Fontbonne),		
(205)	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) *contd*	*Simferopol, U.S.S.R.*		
1470 (204)	*Bhagalpur, India*	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
	Lamphun, Thailand*	100	Hill Tribes Radio Station
1484 (202)	St. Pölten, Austria	0·2	
	Ostende (Breedene), Belgium	2	Regional Pr. (Dutch)
	Liege, Belgium	5	2nd Programme (French)
	Sofia (Pleven), Bulgaria	1	
	Limassol (Polemidhia), 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 (202) *contd*	Fort Wellington, Gibralter	1	Radio Gibralter
	Volos, Greece	1	
	Keflavik, Iceland	0·25	VoA
	Olafsfjördur, Iceland	0·02	
	Raufarhöfn, Iceland	0·02	
	Siglufsjordur, 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
contd	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 (201)	Hellissandur, Iceland		
1490 (201)	Sljeme*, Yugoslavia		
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
	Besançon, 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
contd	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)	Münster, 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	Brussells 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	Jerez Fronterra, Spain	2	Radio Jerez SER
(197)	Lerida, Spain	2	Radio Lerida SER
contd	Lugo, Spain	2	Radio Lugo SER
	Valladolid, Spain	2	Radio Valladolid SER
	Vigo, Spain	2	Radio Vigo SER
	Buffalo, U.S.A.	50	
	Petrinja, Yugoslavia	0·05	
1525	*Peking, China*		
(197)	Moscow, U.S.S.R.		
1529	Kerkyra (Corfu), Greece	50	
(196)	Funchal, Madeira Is.		
	Porjus, Sweden	0·075	1st Programme
	Vatican State, Vatican City	250	
1530	*Cincinnati, U.S.A.*	50	
(196)			
1538	*Dakar, Senegal*	10	
(195)	*Djibouti*, Fr. Terr. AFARS/ISSAS (Somaliland)*	4	
	Mainflingen, Germany (W.)	700	Deutschlandfunk
1540	Bitolja, Yugoslavia		
(195)			
1546	Abtenau, Austria	0·05	1st Programme
(194)	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	Nice I, France	150/	France Jeunesse
(193)		250	
	Vilnius, U.S.S.R.		
1558	Amalias, Greece	1·25	
(192)	*Siliguri, India*	20	
1562	Kötschach, Austria	0·05	1st Programme
(192)	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
contd	Malmö, Sweden	2	1st Programme
	Nörrköping, 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) *contd*	Porto, Portugal	10	Em. do Norte Reunidos
1580 (190)	*Bangkok, Thailand*	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
	Balatonszabad, Hungary	15	Petoefi Radio 1
	Magyarovar, Hungary	0·04	Petoefi Radio 1
	Miscolcz, Hungary	15	Petoefi 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 (189) *contd*	Jönköping, Sweden	0·2	3rd Programme
	Kristinehamn, Sweden	0·2	3rd Programme
	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 (187)	Munich, Germany (W.)	185 370	Bayerischer Rundfunk

GEOGRAPHICAL LIST OF LONG- AND MEDIUM-WAVE EUROPEAN STATIONS

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

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

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

France—cont.	kHz
Dijon	1484
Grenoble	1484
Lille	1376
Limoges	791
Lorient	1594
Lyons-Traunoyes	602
Marseilles	674
Montpellier	1403
Nancy	836
Nantes	1493
Nice	1403
Paris	1070
Pau	1403
Poitiers	1484
Rennes	710
Rouen	1403
St. Quentin	1594
Strasbourg	1160
Toulouse	944
Tours	1493
(Inter/Jeunesse)	
Allouis	164
Brest	1493
Marseilles	1493
Montpellier	1484
Nice	1554
Nimes	1594
Perpignan	1484
Strasbourg	1493
Toulouse	1594
(Special)	
Paris	962
GERMANY (EAST)	
(R.B.I.)	
Berlin	1430
	1511
(B.R.)	
Berlin	611
Karl-Marx-Stadt	602
Plauen	1079
Potsdam	656
Reichenbach	917
(B.W.)	
Berlin	1358
(D.S.)	
Burg	782
Oranienburg	185
Schwerin	728
Suhl	692

	kHz
(D.D.R.1.)	
Berlin	881
Bernburg	1570
Cottbus	746
Dresden	1043
Erfurt	629
Greifswald	557
Leipzig	575
Meiningen	683
Seelow	1546
Suhl	1052
Schwerin	529
(D.F.S.)	
Burg	908
(S.P.)	
Berlin	263
Burg	935
Leipzig	1322
GERMANY (WEST)	
(A.F.N.)	
Ansbach	1034
Augsburg	1394
Bad-Kissingen	1034
Bamberg	1304
Berchtesgaden	1304
Berlin	935
Bitburg	1394
Bremerhaven	1124
Crailsheim	1394
Frankfurt	872
Fulda	1304
Garmisch	1502
Giessen	1502
Göppingen	1142
Grafenwohr	611
Heidelberg	1304
Hersfeld	1142
Hof	1394
Hohenfels	1502
Kaiserslautern	611
Karlsruhe	1034
Kassel	1502
Munich	1106
Nuremburg	611
Regensburg	1304
Schweinfurt	1142
Stuttgart	1142
Ulm	1142
Wertheim	1304
Wildflecken	1502
Würzburg	1142

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

Greece—cont.	kHz
Florina	1313
Iraklion	1570
Kavalla	1347
Kerkyra	1007
Komotini	1403
Larissa	944
Mesolongion	1070
Orestias	1079
Patrai	1511
Pyrgos	1061
	1436
Rhodes (V.o.A.)	1259
	1493
Thessaloniki (V.o.A.)	791
	1043
	1178
Volos	1484

HUNGARY	
Balatonszabadi	1250
	1594
Budapest	539
	872
	1340
Gyor	1349
Magyarovar	1594
Miscolc	1594
Nyiregyhaza	1340
Pecs	1340
Szolnok	1187
	1349

ICELAND	
Akureyri	737
Alftafjördur	1133
	1510
Dalvik	1510
Djupivogur	1412
Eidar	209
Höfn	665
Husavik	1412
Hellissandur	1489
Keflavik (A. F. N.)	1484
Kopasker	1510
Lön	1412
Olafsfjördur	1484
Raufarhöfn	1484
Reykjavik	209
Rikisutvarpid	1510
Siglufjördur	1484
Skulagardur	1484
Thorshöfn	1510

ISRAEL	
Akko	1205
Beersheba	1367
Bet Hilel	881
Eilat	1358
Haifa	1304
Jerusalem	575
(Jordan)	710
	1169
	1390
Safad	697
	845
Tel Aviv	656
	737
	1025
	1286

ITALY (1st Prog.)	
Ancona	1578
Aosta	1331
Aquila	1578
Bari	1331
Bologna	566
Bolzano	656
Brindisi	1578
Cagliari	1061
Caltanissetta	566
Campobasso	1578
Carrara	1578
Catania	1061
Catanzaro	1578
Cosenza	1578
Florence	656
Foggia	1578
Genoa	1578
Gorizia	1578
La Spezia	1578
Lecce	1578
Leghorn	1061
Matera	1578
Milan	899
Naples	656
Nuoro	1578
Palermo	1331
Perugia	1578
Pescara	1331
Potenza	1578
Reggio Calabria	1578
Rome	1331
Salento	566
Sassari	1578
Taranto	1578
Terni	1578
Trento	1331
Trieste	818
Turin	656

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

Libya—cont.	kHz
Tripoli	1594
(A. F. N.)	990
(A. F. N.)	1594
Tripoli/Tobruk (B. F. B. S.)	1394
LUXEMBOURG	
Luxembourg	233
	1439
MADEIRA ISLAND	
Funchal	1331
	1475
	1529
MALTA	
Dalimara Point	1546
Benghisa (B. F. B. S.)	1428
Radio Malta	1214
MONACO	
Monte Carlo	218
	1466
MOROCCO	
Azilal	209
Agadir	935
	1196
Ben Mellal	1349
Casablanca	818
	1187
	1484
Kenitra (A. F. N.)	1484
Marrakech	971
	1152
	1594
Ouj	593
Oudja	827
Rabat	1025
	1295
Safi	1025
	1322
Sebaa-Aioun	611
	701
	1043
Tangiers	1016
	1115
	1232
Tetuan	917
	1059
(A. F. N.)	
Ben Guerir	1594
Nouaceur	1594
Rabat	1594
Sidi Slimane	1594

	kHz
NETHERLANDS	
Hilversum	746
	1007
	1250
Bloemendaal	1223
Hengelo	1594
Hoogezand	1594
Hulsburg	1594
NORWAY	
Alta	1115
Arendaal	1115
Bergen I	890
Bodö	674
Bø Vesteraalen	1115
Brönnöysund	1484
Fredrikstad	1578
Geilo	1466
Glomfjord	1484
Karasjok	1484
Kautokeino	1466
Kristiansand	890
Lista	1115
Mo-I-Rana	1115
Mosjöen	1484
Namsos	1115
Narvik	1466
Nordkapp	1115
Notodden	1578
Odda	1115
Oslo	218
Porsgrunn	1466
Röros	520
Rjukan	1484
Sandnessjoen	1466
Stavanger	1313
Svalbard	1466
Tromsö	155
Tröndelag	890
Vigra	629
Vadso (Finnmark)	701
POLAND	
Bialystok	1367
Gdansk	1304
Gizycko	1594
Jelenia Gora	1484
Katowice	1079
Kielce	1484
Koszalin	1594
Krakow	1205
Lodz	1367
	1484
Lublin	1367

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

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

SWEDEN	kHz
Boden	1594

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

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

U. S. S. R. —cont.	kHz
Gorkii	827
Groznii	656
Ijevsk	584
Irkutsk	200
Ivanovo	926
Kaliningrad	1115
	1142
Karaganda	746
Kaunas	665
	1385
Kazan	200
	254
Khabarovsk	209
	335
	395
	629
	1250
Kharkov	385
	836
	1313
Kiev	209
	782
	1169
	1241
Kishinev	998
Kothla-Jarve	1331
Krasnoyarsk	218
Krasnodar	611
Kuldiga	1349
Kursk	1214
Kuybychev	809
Leningrad	200
	236
	548
	800
	1124
	1493
	1562
	1570
Lvov	935
Madona	1349
Magadan	236
Makhatch-Kala	313
	917
Moscow	151
	173
	200
	236
	263
	385
	872
	1115
	1277
Minsk	281
	400
Murmansk	656

	kHz
Nalchik	350
Novosibirsk	272
Nukus	331
Odessa	548
	764
Omsk	394
Ordzonikidze	593
Orenburg	300
Ouchgorod	890
Parnu	1331
Perm	872
	1088
Petropavlovsk	155
	182
	611
Riga	575
	1142
	1421
	1484
Rostov-na-Don	944
Saransk	1061
Saratov	340
Simferopol	647
	1466
Smolensk	971
Stavropol	881
Sverdlovsk	366
Syktyvkar	320
	1439
Tallinn	710
	1034
	1214
	1511
Tartu	1586
Tashkent	164
	400
	1088
Tbilisi	191
	1043
	1349
Tselinograd	209
Ufa	692
Ulan Bator	227
Ulan Ude	
	281
Valmiera	1349
Vilnius	1106
	1555
Vinnitsa	836
	1376
	1546
Vladivostok	245
	380
	548
	710
Volgograd	557

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

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.

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

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	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	Petropavlovsk, 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

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

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, Madagasgar
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

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.				
		120/240	Peking, China				
		20/10	Sarawak, Malaysia				
5.035	59.57	50	Alma-Ata, U.S.S.R.				
		30	Bangui, Central African Rep.				
		1	Florencia, Colombia				
5.040	59.52	1	Maracaibo, Venezuela				
		50	Tbilisi, U.S.S.R.				
		50	Rangoon, Burma				
5.041	59.51	10	Conakry, Guinea Rep.				
5.045	59.46	1	Rio de Janeiro, Brazil				
		20	Jogjakarta, Indonesia				
		5	La Paz, Bolivia				
		1	Benguela, Angola				
5.047	59.45	4/100	Lome, Togoland				
5.050	59.41	2	Caracas, Venezuela				
		20	Dar es Salaam, Tanzania				
5.052	59.39	10	Singapore, Malaya				
		50	Chita, U.S.S.R.				
		5	Cochabamba, Bolivia				
5.060	59.29		Tirana, Albania				
5.065	59.23	10	Petrozavodsk, U.S.S.R.				
		20/50	Medan, Indonesia				
5.074	59.12	35	Sutatenza, Colombia				
		120/240	Peking, China				
5.125	58.54	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			
		5/25/60	Sanaa, Yemen	X	X		
		3	Port au Prince, Haiti		X		
		5/10	Lima, Peru		X	X	
		240	Peking, China		X		X

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	X
		50	Kajang, Malaysia		X	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	

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	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	
		10	Menado, Indonesia				X
5.990	50.08	50	Sackville, Canada	X		X	X
		60/100	Rome, Italy	X	X	X	X
		10	Bhopal, India	X	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	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
		100	Hanoi, N. Vietnam				X
6.005	49.96	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

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	Julich, 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	

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
		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
		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
		50	Tokio, Japan	X	X	X	X
6.060	49.50	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
		120	Ashkhabad, U.S.S.R.				X
6.070	49.42	50/100	Sofia, Bulgaria	X	X	X	X
		100	Accra, Ghana	X	X	X	X
		10	Karachi, Pakistan	X			X

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
		35/100	Tangier, Morocco				X
6.080	49.34	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	
		0.5	Porto Alto, Portugal				X
		35/100	Tangier, Morocco				X
6.085	49.30	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		
		1	Tegucigalpa, Honduras			X	
		10/100	Kajang, Malaysia				X
6.090	49.26	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
		50	Phnom Penh, Cambodia	X	X	X	X
		10	Kaduna, Nigeria			X	
		250	London, U.K.				X
6.095	49.22	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
		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
6.100	49.18	100	Julich, Germany (W.)	X	X	X	X
		100	Belgrade, Yugoslavia	X	X	X	X

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	X
6.170	48.62	50/20	"Radio Free Europe"	X		X	X
		10	Lucknow, India	X	X	X	X
		1	Caracas, Venezuela	X	X	X	
		100	Tangier, Morocco	X	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	X
		120	Kazan, U.S.S.R.	X	X	X	X
		100	Kajang, Malaysia		X	X	X
		20	Kaduna, Nigeria		X		
6.180	48.54	50	Bogota, Colombia	X	X	X	X
		250	London, U.K.	X		X	X
		50	Monrovia, Liberia	X	X	X	X
		50	Tashkent, U.S.S.R.	X	X	X	X
		100	Limassol, Cyprus (BBC)	X			
		1	Guatemala, Guatemala		X	X	X
		4	Ziguinchor, Senegal		X		
		10	Mendoza, Argentina			X	X
		120	Tirana, Albania				X
6.185	48.50	100	Jülich, Germany (W.)	X	X	X	X
		10	Sao Paulo, Brazil	X	X	X	X
		100	Lisbon, Portugal	X	X	X	X
		10	Colombo, Ceylon		X	X	
		100	Addis Ababa, Ethiopia		X	X	X
		1	Mexico City, Mexico		X		
		50	Riazan, U.S.S.R.		X		X
		100	Prague, Czechoslovakia				X
		10/250	"Radio Free Europe"				X
		250	Dixon, U.S.A.				X
6.190	48.47	100	Vatican City, Vatican State	X	X	X	X
		10	Delhi, India	X	X	X	X
		250	Greenville, U.S.A.	X	X	X	X
		20/240	Tirana, Albania	X			X
		5	Bremen, Germany (W.)	X	X	X	X
		50	Sebaa Aioun, Morocco	X	X	X	X
		10	Padang, Indonesia		X	X	X
		0.1	Porto Plata, Dominican Rep.		X		
		35	Petropavlovsk, U.S.S.R.			X	X
6.195	48.43	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

MHz	Metres	kW	Station and Country	M	M	S	N
6.195	48.43	50	Tunis, Tunisia		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	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

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	
		10	Karachi, Pakistan				X
7.140	42.02	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
		20/240	Tirana, Albania		X		
		100	Tokio, Japan				X
7.145	41.99	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
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
		20/240	Peking, China				X
7.175	41.81	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
		120	Starobelsk, U.S.S.R.			X	X
		50	Djakarta, Indonesia			X	X
		50	Kuwait, Kuwait				X
7.180	41.78	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
		35	Minhsiung, Taiwan				X
7.190	41.72	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			
		20	Jerusalem, Israel	X	X	X	X
		15/120	Moscow, U.S.S.R.		X		
7.195	41.70	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
		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	
7.200	41.67	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			
		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
7.205	41.64	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
7.210	41.61	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
		100	Beromünster, Switzerland			X	X
7.215	41.58	100	Delhi, India	X	X	X	X
		100	Monte Carlo, Monaco	X	X		
		10/50	Karachi, Pakistan		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	Tromsö, Norway				X
		10	Abidjan, Ivory Coast			X	X

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	Bocaue, 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	X
		100	Limassol, Cyprus (BBC)				X
		3	Bocaue, 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	
		100	Luanda, Angola			X	X
7.250	41.38	250	"Radio Free Europe"	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	
		15/100	Budapest, Hungary		X		
7.265	41.29	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	
		100	Cairo, U.A.R. (Egypt)				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
7.275	41.24	100	Jülich, Germany (W.)	X	X	X	X
		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
7.280	41.21	100	Paris, France	X	X	X	X
		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	
		140/250	Bethany, U.S.A.			X	
7.285	41.18	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		
		250	"Radio Liberty"				X
7.290	41.15	100	Jülich, Germany (W.)	X	X	X	X
		100/60	Rome, Italy	X	X	X	X

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	
		10	Gaberones, Botswana		X		
		10	Penang, Malaya				X
7.300	41.10	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
		5	Athens, Greece		X		
7.301	41.09	10	Enugu, Nigeria				
7.305	41.07	50/240	Tirana, Albania				
7.309	41.04	5/240	Tirana, Albania				
7.310	41.04	50	Kiev, U.S.S.R.				
7.312	41.04	5/240	Tirana, Albania				
7.315	41.01	15/50	Moscow, U.S.S.R.				
		100/240	Peking, China				
7.320	40.99	20/240	Peking, China				
		100	Minsk, U.S.S.R.				
		75/100	London, U.K.				
7.325	40.96	15/100	London, U.K.				
		5/240	Tirana, Albania				
7.330	40.93	100	Kiev, U.S.S.R.				
		15/50	Dyushambe, U.S.S.R.				
7.335	40.90	120/240	Peking, China				
7.340	40.87	15/120	Moscow, U.S.S.R.				
7.345	40.85	100	Prague, Czechoslovakia				
7.350	40.82	20/240	Peking, China				
		15/120	Moscow, U.S.S.R.				
7.360	40.76	100	Moscow, U.S.S.R.				
7.365	40.75	50	Ulan Bator, Mongolia				
7.370	40.73	15/50	Moscow, U.S.S.R.				
7.375	40.71	20/240	Peking, China				
		50/100/140	Cairo, U.A.R. (Egypt)				
7.380	40.65	20	Magadan, U.S.S.R.				
7.390	40.60	15/120	Moscow, U.S.S.R.				
7.400	40.54	20	Moscow, U.S.S.R.				
7.420	40.43	15/120	Moscow, U.S.S.R.				
7.430	40.38	20/240	Peking, China				
7.435	40.35	20/240	Peking, China				
7.440	40.32	100	Moscow, U.S.S.R.				
7.450	40.27	120/240	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	Bocaue, 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	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	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

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	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	
		35	Salonika, Greece			X	
9.535	31.46	150	Berne, Switzerland	X	X	X	X
		100	Delhi, India	X	X	X	X
		10	Kuching, Malaysia	X		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	X
		35	Thessaloniki, Greece	X	X	X	X
9.545	31.43	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			
		100	Irkutsk, U.S.S.R.	X			
9.560	31.38	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
		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
		35/100	Poro, Philippine Is.	X	X		X
9.565	31.36	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
		100	Warsaw, Poland	X	X	X	X
		100	Riazan, U.S.S.R.	X		X	
9.575	31.33	100/60	Rome, Italy	X	X	X	X
		50	Boston, U.S.A.				X

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	
		50/500	Tirana, Albania			X	
9.580	31.32	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
		100	Vatican City, Vatican State				X
9.585	31.30	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
		200	U.S.S.R.	X	X	X	X
		50/500	Tirana, Albania		X		
		50	Djakarta, Indonesia	X	X	X	X
9.590	31.28	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
		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		
		100	Prague, Czechoslovakia		X	X	X
		100	Madrid, Spain				X
9.605	31.23	5/7.5	Athens, Greece	X	X	X	X

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	Jülich, 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	Jülich, 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			
		100	Kabul, Afghanistan				X
9.613	31.21	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
		100	Delhi, India	X	X	X	X
		25/100	Vatican City, Vatican State			X	X
9.620	31.19	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
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

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	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
		18	Bamako, Mali				X
9.640	31.12	250	London, U.K.	X	X	X	X
		120	Moscow, U.S.S.R.	X	X	X	X
		100	Julich, Germany (W.)	X	X	X	X
		50	Suwon, S. Korea	X	X	X	X
		35	Thessaloniki, Greece				X
		250	Greenville, U.S.A.	X	X	X	X
9.645	31.10	10	Karachi, Pakistan	X	X	X	
		2	San Jose, Costa Rica			X	X
		10/120	Fredrikstad, Norway			X	X
		30	Quito, Ecuador	X	X	X	X
		25/100	Vatican City, Vatican State	X	X	X	X
		50	Kazan/Khabarovsk,	X	X	X	X
		7.5	Pocos de Caldas, Brazil	X	X	X	X
9.650	31.09	7.5	Limassol, Cyprus (BBC)	X	X	X	X
		500	Greenville, U.S.A.	X	X	X	X
		100	Jülich, Germany (W.)		X	X	X
		100	Moscow, U.S.S.R.	X	X	X	X
		100	Conakry, Guinea Rep.	X	X	X	X
		1	Santiago, Chile	X			
9.655	31.07	10	"Radio Free Europe"		X		
		35/100	Poro, 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	X
		10/100	Havana, Cuba	X	X	X	X
		20	Chachapoyas, Peru	X			
		50/200	Dixon, U.S.A.	X			
		100	Monte Carlo, Monaco	X	X	X	
9.660	31.06	100/250	London, U.K.				X
		250	"Radio Liberty"	X	X	X	X
		100	Munich, Germany (W.)		X	X	X
		10	Brisbane, Australia		X	X	X
		100	Minsk, U.S.S.R.	X	X	X	X
		35	Thessaloniki, Greece	X		X	X
		50	Kajang, Malaysia	X	X	X	X
		35	Tangier, Morocco	X		X	
		100	Luanda, Angola			X	X
		50	Sofia, Bulgaria	X	X	X	X
9.665	31.04	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	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
		25/100	Vatican City, Vatican State	X		X	X
9.675	31.01	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
		1	Lima, Peru	X			
		100	Monte Carlo, Monaco	X	X		
9.680	31.99	50/250	"Radio Liberty"	X	X	X	X
		100	Lisbon, Portugal	X	X	X	X
		10/100	Shepparton, Australia	X	X	X	X
		35	Thessaloniki, Greece		X		
		100	Delhi, India	X	X	X	
		20	Bloemfontein, South Africa			X	
9.685	30.98	25	Panchiao, Taiwan	X	X	X	X
		240/50	Moscow/Erevan, U. S. S. R.	X	X	X	X
		50	Algiers, Algeria		X	X	X
		100	Cairo, U. A. R. (Egypt)			X	X
		7.5	Sao Paulo, Brazil	X	X	X	X
9.690	30.96	100	Vatican City, Vatican State	X	X	X	
		100	London, U. K.		X	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
		100	Delhi, India	X	X	X	X
		35/100	Tangier, Morocco	X			
		100	Lagos, Nigeria			X	X
9.695	30.94	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	X
		7.5	Manaus, Brazil	X	X	X	X
		100	Delhi, India			X	
		50	Phnom Penh, Cambodia	X	X	X	X
		50/100	Lisbon, Portugal			X	
		15/120	Moscow, U. S. S. R.				
9.700	30.93	10/50	Karachi, Pakistan				X
		120	Sofia, Bulgaria	X	X	X	X
		15/120	Moscow, U. S. S. R.		X	X	X
		100	Paris, France	X	X	X	X
		100	Tokio, Japan	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	X
		100	Addis Ababa, Ethiopia		X	X	X
		50	Lvov, U.S.S.R.	X	X		
		10	Rio de Janeiro, Brazil	X	X	X	X
9.710	30.90	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
		1	Managua, Nicaragua			X	X
		30	Berlin, Germany (E.)			X	
		6	Buenos Aires, Argentina		X	X	X
		1	Tarapoto, Peru			X	
9.715	30.88	100	Hilversum, Netherlands	X	X	X	X
		100	Tangier, Morocco	X			X
		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			
9.720	30.86	100	Berne, Switzerland		X	X	X
		120	Riazan, U.S.S.R.	X		X	X
		50	Riyadh, Saudi Arabia	X	X	X	X
		10	Hyderabad, India	X	X	X	X
		10	Colombo, Ceylon	X		X	X
		25	Dakar, Senegal Republic	X	X	X	
		100/250	London, U.K.		X		
		50	Rio de Janeiro, Brazil	X	X	X	X
9.725	30.85	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
		100/50	Tbilisi/Irkutsk, U.S.S.R.	X			
9.730	30.83	50	Berlin, Germany (E.)		X	X	X
		50	Leipzig, (Germany (E.)	X	X	X	X
		120	Moscow, U.S.S.R.	X		X	X
		20/240	Peking, China			X	
		100	Bangkok, Thailand	X	X	X	X
		15	Brazzaville, Congo	X	X	X	X
		7.5	Porto Alegre, Brazil	X	X	X	X
		50	Bonaire, Netherland Antilles				X
9.735	30.82	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
		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	
9.740	30.80	250	London, U.K.	X	X	X	X
		7.5	Tebrau, Malaysia (BBC)		X		

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
		7.5	Dacca, Pakistan	X	X		X
9.745	30.79	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	
		7.5	Sao Paulo, Brazil	X	X	X	X
		7.5	Taichung, Taiwan	X	X		
9.750	30.77	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
		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
9.755	30.75	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	
		7.5	Wellington, New Zealand	X			
		20/120	Peking, China	X	X	X	
9.760	30.74	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
		250	Tema, Ghana		X	X	X
9.765	30.72	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
		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	
9.770	30.71	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
		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		

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	0.5	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.	X	X	X	X
		100	Vatican City, Vatican State	X	X	X	X
		250	Bonaire, Netherlands Antilles	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	
		100	Teheran, Iran	X		X	
		100	Tokio, Japan		X	X	X
		50	Peking, China		X	X	X
		7.5	Wellington, New Zealand		X	X	X
		100	Lagos, Nigeria		X		

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
		50/100	Cairo, U.A.R. (Egypt)				X
11.710	25.62	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	
		120	Peking, China		X		
		50	Rhodes, Greece		X	X	X
		100	Tangier. Morocco				X
11.715	25.61	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	
		100	Okinawa, Ryukyu Is.	X			
		160	Delhi, India		X	X	X
		50	Tinang, Philippines		X	X	X
11.720	25.60	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
		100	Warsaw, Poland	X	X		
		75	London, U.K.		X	X	
11.725	25.59	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
		100	Paris, France		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
		20/50	"Radio Liberty"				X
11.730	25.58	100	Hilversum, Netherlands	X	X	X	X
		50	Boston, U.S.A.	X		X	
		100	Addis Ababa, Ethiopia	X	X		

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	X	X
		100/10	Fredrikstad/Tromsö, 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	
		5	Montevideo, Uruguay				X
11.740	25.55	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	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	X
		100	Monte Carlo, Monaco				X
11.750	25.53	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
		10/1	Tokio, Japan		X	X	
11.755	25.52	240/240/100	Leningrad/Tbilisi/Vladivostok, U.S.S.R.	X	X	X	X
		10/100	Delhi, India	X			
		100	Cairo, U.A.R. (Egypt)		X		
		100	Tripoli, Libya		X		
		100	Quito, Ecuador				X
11.760	25.51	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

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	
		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
		120/240	Pyongyang, N. Korea			X	X
11.770	25.49	250	London, U.K.	X		X	X
		35	Tangier, Morocco	X	X	X	X
		100	Delano, U.S.A.	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	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		X	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		

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	Horby, 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

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
		5	Amman, Jordan	X	X	X	X
		120	Peking, China			X	X
		100	Horby, Sweden				X
11.815	25.39	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
		100	Tokio, Japan		X	X	X
		100	Addis Ababa, Ethiopia			X	
11.820	25.38	250	Ascension, Ascension Is.(BBC)	X	X	X	X
		260/50	Bonaire, Netherlands Antilles	X	X	X	X
		25	Lourenco 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		
		7.5	Wellington, New Zealand			X	
		100	London, U.K.			X	X
		100	Berlin, Germany (E.)				X
11.825	25.37	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	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	X
		250	Bethany, U.S.A.				X
11.835	25.35	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	X

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	Bocaue, 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

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	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	X
		35	Thessaloniki, Greece			X	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	X
		240	Moscow, U.S.S.R.	X	X	X	X
		20	Lourenço Marques, Mozambique	X			X
		150	Berne, Switzerland	X	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	X
		100	Delhi, India			X	X
		50	"Radio Free Europe"	X	X	X	X
		20	Buenos Aires, Argentina		X		

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	Bocaue, Philippines		X	X	X
		100	Addis Ababa, Ethiopia	X	X		X
		10/50	Karachi, Pakistan				X
11.895	25.22	50	"Radio Free Europe"	X	X	X	X
		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		
		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	Minhsiung, Taiwan			X	X
		120	Peking, China				X
		100	Addis Ababa, Ethiopia				X
11.910	25.19	50	Bangkok, Thailand	X	X	X	X
		100	Budapest, Hungary	X	X	X	X
		100	Quito, Ecuador	X	X	X	X
		20/240	Peking, China	X			
		100	Limassol, Cyprus (BBC)	X	X	X	X
		100	Irkutsk, U.S.S.R.	X	X	X	X

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		
		50/250	Cairo, U.A.R. (Egypt)		X		
		100	Sfax, Tunisia		X		
11.915	25.18	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		
		75	London, U.K.			X	
		3	Concepcion, Paraguay			X	X
		100	Bangkok, Thailand			X	X
		250	Greenville, U.S.A.				X
11.920	25.17	100	Moscow, U.S.S.R.	X	X	X	
		100	Paris, France	X	X	X	X
		20	Delhi, India		X	X	X
		250	Greenville, U.S.A.	X	X	X	X
		35	Okinawa, Ryukyu Is.	X			
		120	Bucharest, Rumania	X	X	X	X
		100	Abidjan, Ivory Coast	X	X	X	X
		100	Berlin, Germany (E.)	X	X	X	X
		100	Monte Carlo, Monaco		X		X
		50	Bocaue, Philippines		X	X	X
		250	Kuwait, Kuwait				X
11.925	25.16	100	Julich, 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
		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
11.930	25.15	100	Moscow, U.S.S.R.	X	X	X	X
		100	Sfax, Tunisia	X			
		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		
11.935	25.14	100	Lisbon, Portugal	X	X	X	X
		100	Addis Ababa, Ethiopia	X	X	X	
		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	

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
11.945	25.12	100	Hilversum, Netherlands		X		X
		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		
11.950	25.10	25	Rio de Janeiro, Brazil	X	X	X	X
		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	X
		75	Singapore. Malaya		X		
11.960	25.08	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	
		15	Santiago, Chile		X		
		7.5	Thessaloniki, Greece			X	
11.965	25.07	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			
		50	Karachi. Pakistan		X		
		35	Okinawa, Ryukyu Is.		X	X	X
		100	Monte Carlo, Monaco		X		
		200	Tokio, Japan	X	X	X	

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		
		50	Tunis, Tunisia		X	X	X
		3	Minhsiung, Taiwan			X	X
		100	Karachi, Pakistan				X
11.975	25.05	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	
		120/240	Peking, China			X	X
11.985	25.03	50	Orcha, U.S.S.R.				
		10/50	Karachi, Pakistan				
11.990	25.01	100	Prague, Czechoslovakia				
		50	Dyushambe, U.S.S.R.				
		10	Warsaw, Poland				
12.000	25.00	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
		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

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		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
		10/250	"Radio Free Europe"	X		X	
		15	Kherputchi, U.S.S.R.	X	X		
15.130	19.83	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
		50	Suwon, S. Korea	X	X		
		100	Addis Ababa, Ethiopia			X	
15.135	19.82	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		
		100	Tula, U.S.S.R.			X	
15.140	19.82	100/250	London, U.K.	X	X	X	X
		20	Delhi, India		X	X	X
		240	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	
15.145	19.81	10/250	"Radio Free Europe"	X	X	X	X
		10	Recife, Brazil	X	X	X	X
		100	Berlin, Germany (E.)				X
		50	Tula, U.S.S.R.		X		X
15.150	19.80	150	Lima, Peru			X	X
		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	
		5	Hue, S. Vietnam			X	
15.155	19.80	100	Paris, France	X	X	X	X

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		
		20/240	Peking, China	X	X		
15.170	19.78	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
		100	Berlin, Germany (E.)		X	X	
		100	Amman, Jordan	X	X	X	X
15.175	19.77	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		
		10/100	Delhi, India		X		
15.180	19.76	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		
		100/250	Berne, Switzerland		X	X	
		20/240	Peking, China	X			
		20/100	Delhi, India	X			
15.185	19.76	20/240	Peking, China	X			X
		100	Pori, Finland	X	X	X	X
		100	Paris, France		X	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	
			Mexico City, Mexico				X
15.205	19.73	100/250	London, U.K.		X	X	
		10/100	Delhi. India		X	X	X
		500	Greenville, U.S.A.	X	X	X	X
		100	Jülich. Germany (W.)	X	X	X	X
		35/100	Tangier. Morocco		X	X	X
		20/240	Peking. China	X			
		10/50	Karachi, Pakistan		X	X	
		120	Bucharest. Rumania			X	
15.210	19.72	100	Moscow, U.S.S.R.	X	X	X	X
		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
		100	Beirut, Lebanon				X
15.225	19.70	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	
		100/250	London, U.K.			X	
15.230	19.70	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	X
		10/50	Karachi, Pakistan		X		
		5	Melo, Uruguay				X
15.235	19.69	100/250	London, U.K.			X	
		250	Ascension, Ascension Is.(BBC)	X	X	X	X
		100	Delhi, India		X	X	X
		100	Tokio, Japan	X	X	X	X
		250/500	Greenville, U.S.A.	X	X	X	X
		100	Vinnitsa, U.S.S.R.	X	X	X	
		5	Bangkok, Thailand			X	
		100	Addis Ababa, Ethiopia			X	X
15.240	19.69	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	X
		50/100	Cairo, U.A.R. (Egypt)	X			
		50	Sverdlovsk, U.S.S.R.	X	X		
15.245	19.68	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
		50/500	Greenville, U.S.A.	X	X		
		100	Julich, Germany (W.)	X	X	X	X
15.250	19.67	100	Delhi, India	X	X		
		35/50	Poro, Philippines		X	X	X
		250	Greenville, U.S.A.	X	X	X	X

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		
		35/100	Honolulu, Hawaii Is.				
15.255	19.67	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	Garovka, U.S.S.R.	X			
		50	Phnom Penh, Cambodia	X			
15.260	19.66	100/250	London, U.K.	X	X	X	X
		250	Ascension, Ascension Is.(BBC)		X	X	X
		7.5/100	Limassol, Cyprus (BBC)		X		X
		50/250	"Radio Liberty"			X	X
		10	Tokio, Japan		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		
		50/100/140	Cairo, U.A.R. (Egypt)				X
15.265	19.65	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		
		20/100	Delhi, India	X			
		10/100	Kabul, Afghanistan	X		X	X
		1/7.5	Port au Prince, Haiti	X			
15.270	19.65	50	Havana, Cuba	X	X	X	X
		100	Moscow, U.S.S.R.		X	X	X
		100	Tangier, Morocco	X	X	X	X
		20/240	Peking, China	X	X	X	X
		250	Darwin, Australia				X
		100	Addis Ababa, Ethiopia				X
		10/250	"Radio Free Europe"			X	
		100	Kabul, Afghanistan				X
		50	Berlin, Germany (E.)	X			
15.275	19.64	100	Delhi, India				X
		40/100	Warsaw, Poland	X	X	X	X
		50	Omsk, U.S.S.R.		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		
15.280	19.63	500	Greenville, U.S.A.	X	X	X	X
		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
15.285	19.63	100/250	London, U.K.	X	X	X	X

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			
		250	London, U.K.	X	X		
15.295	19.61	100	Paris, France			X	X
		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	X
15.300	19.61	10/100	Tebrau, Malaysia (BBC)				X
		100	London, U.K.	X	X	X	X
		10/50	Bocaue, 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	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	X
		100	Prague, Czechoslovakia	X	X	X	X
		100	Conakry, Guinea Rep.	X	X	X	X
		50	Sofia, Bulgaria	X	X	X	X
		100	Tangier, Morocco	X	X		X
		100	Novosibirsk, U.S.S.R.	X	X	X	
15.315	19.59	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	

MHz	Metres	kW	Station and Country	M	M	S	N
15.315	19.59	100	Berlin, Germany (E.)		X		
		100	Jülich, Germany (W.)	X	X	X	
		20/240	Peking, China		X		
		20/100	Brussels, Belgium		X		
		35/100	Tangier, Morocco	X	X	X	
15.320	19.58	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			
		50	Quito, Ecuador				X
15.325	19.58	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
		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
		120	Bucharest, Rumania		X		
15.330	19.57	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	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	X
		50	Karachi, Pakistan		X		
		100	Rome, Italy	X	X	X	X
		50/100	Berlin, Germany (E.)		X	X	
		50	Sverdlovsk, U.S.S.R.	X			
15.345	19.55	50/100	Cairo, U.A.R. (Egypt)			X	X
		7.5	Athens, Greece		X	X	X
		25	Panchiao, Taiwan				X
		25	Taipei, Taiwan	X	X		
		15	Poro, Philippines	X	X	X	X
		50	Tangier, Morocco	X	X	X	X
		100	Fredrikstad, Norway	X	X	X	X

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
		100/240	Havana, Cuba		X		
15.350	19.54	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
		20/240	Peking, China		X	X	X
15.355	19.53	10/250	"Radio Free Europe"	X	X	X	X
		50	Boston, U.S.A.	X	X	X	
		10	Montevideo, Uruguay		X		
15.360	19.53	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
		50	Tangier, Morocco	X	X	X	X
		20/240	Peking, China	X	X		
15.365	19.52	100	Lagos, Nigeria			X	X
		100	Okinawa, Ryukyu Is.	X		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
		50	Las Mesas, Canary Is.		X	X	
		20/240	Peking, China		X		
		10/200	Saigon-Cholon, S. Vietnam	X	X	X	
15.370	19.52	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	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.	X	X	X	X
		7.5/100	Limassol, Cyprus (BBC)	X	X	X	
		100/250	London, U.K.		X		
15.380	19.50	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	X
		10/50	Karachi, Pakistan		X	X	X
		50	Astrakhan, U.S.S.R.	X	X	X	
15.385	19.49	50	Bocaue, Philippines	X	X	X	X
		20/240	Peking, China		X		X

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	X
		100	Vienna, Austria	X	X	X	
		100	Baghdad, Iraq	X	X	X	X
		50/100	Rome, Italy		X	X	X
		50/500	Tirana, Albania		X	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	Jülich, Germany (W.)	X	X	X	X
		100	Vienna, Austria	X	X	X	X
		100	Addis Ababa, Ethiopia	X			
		100	Poro, Philippine Is.		X	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	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	Jülich, 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	X
		240	Moscow, U.S.S.R.	X	X	X	X
		50	Perth, Australia	X	X	X	X
		50	Athens, Greece		X		

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	
		15	Moscow, U.S.S.R.		X	X	
15.435	19.44	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	
		250	Kigali, Rwanda		X	X	
15.440	19.43	50	Bocaue, Philippines	X	X		X
		3/10	Poro, Philippines			X	
		120/100	Riazan/Tashkent, U.S.S.R.	X	X	X	X
		20/100	Boston, U.S.A.	X	X	X	X
		100	Beirut, Lebanon	X		X	
		10	Brazilia, Brazil		X		
		15	Bucharest, Rumania		X	X	
15.445	19.42	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	
		50	Ulan Bator, Mongolia		X	X	
		100	Prague, Czechoslovakia	X			
		100	Hörby, Sweden		X		
15.450	19.42	50	Serpukhov, U.S.S.R.	X	X	X	X
		50/100	Berlin, Germany (E.)		X	X	X
		10	Karachi, Pakistan	X	X		
15.455	19.41	7.5/100	Dacca, Pakistan			X	
15.460	19.40	100	Moscow, U.S.S.R.				
15.470	19.39	50	Kalinin, U.S.S.R.				
15.475	19.39	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				

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	X
		10/100	Shepparton, Australia	X	X	X	X
		100	Beirut, Lebanon	X			

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	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	X
		50	Poro, Philippines	X	X	X	X
		50	"Radio Free Europe"	X	X	X	X
		20/240	Peking, China		X	X	X
		100	Lagos, Nigeria	X	X		X
		15/120	Moscow, U.S.S.R.	X	X		
		40/100	Warsaw, Poland		X	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	Poro, Philippines	X	X	X	X
		50	Kursk, U.S.S.R.		X		

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		
		100	Vienna, Austria		X		
17.760	16.89	50/100/250	"Radio Liberty"	X	X	X	X
		50	Boston, U.S.A.		X	X	X
		100	Shepparton, Australia				X
		1	Monrovia, Liberia		X		X
		10/50	Karachi, Pakistan	X			
		20/100	Delhi, India		X		
		15/120	Moscow, U.S.S.R.		X	X	
17.765	16.89	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
		100	Delano, U.S.A.	X		X	X
		100	Jülich, Germany (W.)	X			X
		250	Monrovia, Liberia		X		
		50	Tinang, Philippines	X	X	X	
17.770	16.88	7.5	Wellington, New Zealand	X	X	X	X
		100	Hörby, Sweden				X
		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		
17.775	16.88	240	Riazan/Khabarovsk, U.S.S.R.	X	X	X	X
		50/500	Greenville, U.S.A.			X	X
		100	Vienna, Austria				X
		110	Bethany, U.S.A.		X		
		10/50	Karachi, Pakistan	X			
		120	Bucharest, Rumania		X		
17.780	16.87	120	Lvov, U.S.S.R.	X	X	X	X
		20/240	Peking, China	X		X	X
		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		
17.785	16.87	50	Frunze, U.S.S.R.	X	X	X	X
		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		
17.790	16.86	250	London, U.K.	X	X	X	X
		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			
17.795	16.86	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		
		50/200	Dixon, U.S.A.	X			
17.805	16.85	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		
		20/240	Peking, China		X		
17.810	16.84	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	
		35/100	Tangier, Morocco			X	
		50/200	Delano, U.S.A.	X	X		
17.815	16.84	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
		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			
17.820	16.84	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
		20/240	Peking, China			X	
		100	Ankara, Turkey	X	X	X	X
		10/100	Shepparton, Australia	X		X	X
17.825	16.83	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
		50	Karachi, Pakistan	X	X	X	
		250	Meyerton, South Africa			X	X

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	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		X
		100	Boston, U.S.A.		X	X	X
		50	Karachi, Pakistan	X	X	X	X
		20/240	Peking, China	X	X	X	X
		10/250	"Radio Free Europe"	X	X	X	X
17.840	16.82	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	X
		50/250	Delano, U.S.A.		X		
		10/50	Karachi, Pakistan		X	X	
		10/100	Shepparton, Australia	X	X	X	
17.845	16.82	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	X
		100	Delhi, India	X	X	X	X
		50/500	Greenville, U.S.A.			X	
		50/100	Boston, U.S.A.	X	X	X	X
		10/50	Karachi, Pakistan		X		
		100	Cairo, U.A.R. (Egypt)		X		
17.850	16.81	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	
		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		
17.855	16.81	150	Berne, Switzerland		X	X	
		10/50	Karachi, Pakistan				X
		250	London, U.K.		X	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	X
		100	"Radio Liberty"	X	X	X	X

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	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	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	X
		35/100	Tangier, Morocco			X	X
		50/500	Greenville, U.S.A.				X
17.875	16.79	100	Paris, France	X	X	X	X
		100	Julich, Germany (W.)	X	X	X	X
		100	Cairo, U.A.R. (Egypt)			X	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	X
		50	Tula, U.S.S.R.		X	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	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	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

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

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	
		50	Tunis, Tunisia			X	
21.585	13.90	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	
		50/100	Cairo, U.A.R. (Egypt)	X	X	X	X
		250	Greenville, U.S.A.				X
21.590	13.90	50	Karachi, Pakistan	X	X	X	X
		20	Brussels, Belgium	X	X		X
		140	Bethany, U.S.A.	X	X	X	X
		75/100	London, U.K.	X	X	X	X
21.595	13.90	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	X
		150	Greenville, U.S.A.		X	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	
		100	Kabul, Afghanistan				X
21.610	13.88	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			
		250/100	Dixon, U.S.A.	X	X	X	X
		100	Limassol, Cyprus		X		X
		100	Beirut, Lebanon		X	X	
21.615	13.88	100	Delhi, India	X	X		
		100	Riga, U.S.S.R.	X	X	X	X
		100	Cairo, U.A.R. (Egypt)	X	X	X	X
21.620	13.88	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
		100/250	London, U.K.	X	X	X	X
21.635	13.86	240	Kalinin, U.S.S.R.		X	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
		50	Greenville, U.S.A.		X	X	X
21.645	13.85	100	Jülich, Germany (W.)	X	X	X	
		100	Paris, France	X	X	X	X
		240	Armavir, U.S.S.R.		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	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			

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	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	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	X
		20	Boston, U.S.A.		X	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
		50	Boston, U.S.A.				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	X
		50	Lisbon, Portugal		X	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	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	

MHz	Metres	kW	Station and Country	M	M	S	N
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
AFGHANISTAN	
Kabul	4.775
	7.200
	9.610
	11.775
	11.790
	15.265
	15.270
	15.405
	15.415
	21.585
	21.605
ALBANIA	
Tirana	5.060
	5.945
	5.950
	5.960
	6.020
	6.045
	6.100
	6.120
	6.130
	6.135
	6.160
	6.180
	6.190
	6.195
	6.200
	6.205
	6.210
	7.061
	6.065
	7.077
	7.083
	7.090+
	7.100−
	7.105
	7.115
	7.120
	7.130
	7.135
	7.140
	7.145
	7.150
	7.160
	7.195
	7.200
	7.235
	7.260
	7.265
Tirana	7.280
	7.290
	7.295
	7.300
	7.309
	7.312
	7.325
	9.290
	9.332
	9.340
	9.347
	9.350
	9.363
	9.397
	9.406
	9.486
	9.489
	9.500
	9.505
	9.510
	9.525
	9.545
	9.575
	9.585
	9.700
	9.760
	9.765
	9.770
	9.780
	9.787
	9.865
	11.750
	11.795
	11.820
	11.845
	11.850
	11.855
	11.860
	11.865
	11.870
	11.875
	11.880
	11.895
	11.905
	11.940
	11.945
	11.965
	14.602
	15.400
	15.405
	15.410
	21.560
ALGERIA	
Algiers	6.080
	9.510
	9.685
	11.715
	11.810
	11.835
	15.200
ANGOLA	
Benguela	5.045
Dundo	9.615
Lobito	4.911
	7.175
Luanda	3.375
	4.820
	4.980
	5.960
	6.025
	7.235
	7.245
Malanje	4.935
Mocamedes	7.230
Sa da Bandeira	4.795
	7.285
ARGENTINA	
Buenos Aires	6.060
	6.090
	6.100
	9.690
	9.710
	9.740
	11.710
	11.885
	15.290
	15.345
Hurlingham	11.780
Lomas	
Mirador	5.985
	11.880
Mendoza	6.180
S. Fernando	6.120
ASCENSION IS.	
Ascension	
(B.B.C.)	7.105
	7.240
	9.510
	9.550
	9.580
	9.600
	11.820
	11.860
	11.865
	15.105
	15.140
	15.175
	15.180
	15.235

	MHz
Ascension Is. —cont.	
Ascension	15.260
	15.400
	15.435
	17.740
	17.830
AUSTRALIA	
Brisbane,	
Queensland	4.920
	9.660
Darwin, N.Terr.	7.170
	11.840
	15.270
Perth, W. A.	6.140
	9.610
	15.425
Shepparton,	
Victoria	6.150
	7.190
	7.220
	9.540
	9.560
	9.570
	9.580
	9.680
	11.710
	11.740
	11.765
	11.780
	11.790
	11.810
	11.840
	11.880
	15.140
	15.180
	15.220
	15.230
	15.240
	15.320
	15.390
	17.715
	17.820
	17.840
	17.870
	21.540
	21.740
AUSTRIA	
Innsbruck	6.000
Vienna	6.155
	7.245
	9.525
	9.610
	9.770
	11.760
	11.785
	11.850
Vienna	11.870
	11.925
	15.210
	15.325
	15.380
	15.400
	15.410
	15.430
	17.715
	17.730
	17.750
	17.855
	17.880
	17.885
AZORES	
Ponta Delgada	4.865
BELGIUM	
Brussels	6.010
	6.125
	6.160
	9.615
	9.740
	11.715
	11.875
	11.935
	11.965
	15.315
	15.335
	17.860
	21.475
	21.510
	21.525
	21.590
	21.675
BOLIVIA	
Cochabamba	5.025
	5.055+
La Paz	4.985−
	5.017
	5.045
	5.965
	6.115
	6.195
	11.765
BOTSWANA	
Gaberones	4.836
	7.295
BRAZIL	
Aparecida	3.285
	9.635
Bahia	4.765
Belem	15.245
Belo Horizonte	6.000
Brazilia	5.990
	6.065
	9.665
Brazilia	9.720
	11.720
	15.440
	15.445
Cuiaba	4.985
	9.545
Curityba	6.045
	11.845
	11.935
Florianopolis	5.975
	9.675
	15.165
Fortaleza	4.775
	6.105
Goiana	4.995
	9.755
	11.735
Juis de Fora	4.925
Macapa	4.915
Manaus	4.805
	4.895
	9.695
Natal	4.935
Paraiba	4.795
Pocos de Caldas	4.885+
	9.645−
Porto Alegre	5.965
	6.135
	9.730
	11.785
	11.915
	15.335
Recife	3.375
	6.015
	6.085
	6.175
	9.565
	11.825
	11.865
	15.145
Ribeiro Preto	15.415
Rio de Janeiro	4.825
	4.875
	4.905
	4.955
	5.045
	6.035
	6.065
	6.115
	6.145
	6.195
	9.610
	9.705
	9.770
	11.795
	11.805

	MHz
Brazil—cont.	
Rio de Janeiro	11.950
	15.105
	15.285
	15.295
	15.370
	17.850
	17.875
	21.490
Salvador	9.595
	11.875
	15.125
	15.225
Sao Jose	4.785
	4.975
	17.725
Sao Luiz	4.785
	4.975
Sao Paulo	2.340
	5.955
	6.025
	6.045
	6.055
	6.095
	6.125
	6.165
	6.185
	9.620
	9.685
	9.745
	11.745
	11.765
	11.925
	11.965
	15.155
	15.265
	15.325
	17.705
	17.815
Teresina	4.845
BULGARIA	
Sofia	5.920
	6.070
	6.245
	7.255
	7.670
	9.560
	9.660
	9.700
	11.765
	11.950
	11.970
	15.245
	15.310
	17.800

	MHz
BURMA	
Rangoon	5.040
	6.035
	7.120
BURUNDI	
Bujumburu	6.140
CAMBODIA	
Phnom Penh	6.090
	9.695
	15.255
	17.710
CAMEROON REPUBLIC	
Buea	3.970
Garoua	5.010
Yaounde	4.970
	6.040
CANADA	
Canadian	
Observatory	14.670
Halifax	6.130
Sackville	5.955
	5.970
	5.990
	6.060
	9.610
	9.625
	9.630
	11.720
	11.725
	11.765
	11.945
	11.965
	15.190
	15.320
	15.325
	17.710
	17.720
	17.820
	21.595
St. Johns	6.160
Sydney	6.010
Toronto	6.070
Montreal	6.005
CANARY IS.	
Las Mesas	11.800
	15.365
Santa Cruz de	
Tenerife	15.365
CAPE VERDE IS.	
Sao Vincente	4.720
CENTRAL AFRICAN	
REPUBLIC	
Bangui	5.035
CEYLON	
Colombo	4.900
	4.970

	MHz
Colombo	6.005
	6.075
	6.130
	6.185
	7.105
	7.115
	7.190
	7.275
	9.630
	9.665
	9.720
	11.800
	11.835
	11.865
	15.120
	15.230
	15.285
	17.815
	21.525
CHILE	
Arica	9.520
Concepcion	6.135
Santiago	6.070
	6.150
	9.565
	9.590
	9.600
	9.650
	9.705
	9.750
	11.740
	11.960
	15.150
Valparaiso	9.550
	11.895
CHINA	
(See also TAIWAN)	
Fukien Front	
Station	3.200
	3.900
	4.380
	5.170
Unknown	17.220
Unknown	17.662
Peking	3.450
	3.950
	3.970
	4.170
	4.200
	4.220
	4.865
	4.905
	4.960
	4.975
	5.030
	5.074

China—cont.	MHz
Peking	5.125
	5.145
	5.320
	5.445
	5.545
	5.935
	5.950
	5.955
	5.975
	6.130
	6.155
	6.210
	6.225
	6.250
	6.260
	6.275
	6.290
	6.320
	6.344
	6.355
	6.379
	6.386
	6.392
	6.395
	6.400
	6.406
	6.410
	6.480
	6.560
	6.570
	6.601
	6.605
	6.609
	6.620
	6.635
	6.640
	6.645
	6.665
	6.750
	6.790
	6.810
	6.820
	6.830
	6.860
	6.935
	6.955
	6.974
	7.005
	7.010
	7.015
	7.020
	7.025
	7.030
	7.035
	7.040

	MHz
Peking	7.045
	7.055
	7.060
	7.065
	7.075
	7.080
	7.095
	7.100
	7.105
	7.120
	7.125
	7.155
	7.170
	7.190
	7.200
	7.275
	7.315
	7.320
	7.335
	7.350
	7.375
	7.430
	7.435
	7.450
	7.480
	7.500
	7.550
	7.580
	7.595
	7.610
	7.620
	7.658
	7.700
	7.800
	7.810
	7.820
	7.824
	7.910
	9.020
	9.038
	9.042
	9.080
	9.279
	9.290
	9.298
	9.340
	9.350
	9.355
	9.365
	9.370
	9.376
	9.380
	9.386
	9.390
	9.440
	9.460

	MHz
Peking	9.480
	9.485
	9.490
	9.498
	9.500
	9.505
	9.520
	9.545
	9.580
	9.590
	9.595
	9.605
	9.630
	9.730
	9.750
	9.755
	9.775
	9.800
	9.855
	9.860
	9.870
	9.880
	9.892
	9.898
	9.900
	9.920
	9.925
	9.940
	9.945
	9.955
	9.964
	10.175
	10.154
	10.177
	10.242
	10.253
	10.260
	10.865
	11.100
	11.290
	11.300
	11.330
	11.344
	11.445
	11.501
	11.505
	11.590
	11.600
	11.630
	11.660
	11.675
	11.685
	11.695
	11.700
	11.705
	11.710

	MHz		MHz		MHz
China—cont.		Peking	15.410	Cali	4.955
Peking	11.715		15.415		4.965
	11.720		15.435		6.055
	11.730		15.480		6.140
	11.740		15.517		6.200
	11.760		15.520	Florencia	5.035
	11.765		15.550	Ibaque	6.040
	11.780		15.600	Manizales	5.020
	11.790		15.670	Medellin	5.980
	11.800		15.710		6.095
	11.805		16.342		6.105
	11.810		16.435	Neiva	4.945
	11.820		17.535	Sutatenza	5.074
	11.835		17.635	Tunja	5.985
	11.855		17.640	Villavicencia	4.875
	11.860		17.650	CONGO	
	11.865		17.675	Brazzaville	3.264
	11.870		17.680		4.770
	11.895		17.700		4.839
	11.905		17.705		5.970
	11.910		17.715		6.115
	11.925		17.730		7.105
	11.935		17.735		9.610
	11.980		17.745		9.715
	12.013		17.780		9.730
	12.015		17.785		11.710
	12.035		17.795		11.725
	12.049		17.805		11.790
	12.055		17.810		11.930
	12.094		17.815		11.970
	15.015		17.820		11.975
	15.030		17.835		15.190
	15.060		17.855		15.445
	15.080		17.865		17.720
	15.095		17.895		17.785
	15.100		17.900		21.500
	15.115		21.465	CONGO REPUBLIC	
	15.135		21.485	Kinshasa	4.880
	15.165	Sining	3.950		7.115
	15.180	Urumchi	4.110		7.185
	15.185		4.500		9.775
	15.200	COLOMBIA			11.795
	15.205	Bogota	5.955		15.245
	15.230		5.960	Lubumbashi	4.745
	15.240		5.970		5.955
	15.255		5.995		9.540
	15.265		6.010		11.865
	15.270		6.075	Luluaborg	6.125
	15.280		6.085	Matadi	7.205
	15.290		6.160	Mbandaka	5.990
	15.300		9.530	COMORO IS.	
	15.315		9.613	Dzaudzi	3.331
	15.350		9.630	COSTA RICA	
	15.360		9.690	Puerto Limon	5.955
	15.365		11.790	San Jose	4.752
	15.385	Cali	4.910		6.207

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

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

	MHz
Germany (West)—cont.	
Julich	21.650
	21.705
Mühlacker	6.030
Munich	3.980
	6.005
	6.040
	6.060
	6.085
	6.160
	9.540
	9.660
	9.760
	15.190
	15.195
	15.310
	17.705
	17.830
	21.560
"Radio Free Europe"	3.960
	3.970
	3.995
	5.960
	5.970
	5.985
	6.105
	6.135
	6.170
	6.185
	7.115
	7.145
	7.165
	7.190
	7.200
	7.215
	7.245
	7.250
	7.255
	9.505
	9.520
	9.565
	9.595
	9.655
	9.695
	9.705
	9.725
	10.420
	11.675
	11.705
	11.725
	11.775
	11.875

	MHz
"Radio Free Europe"	11.825
	11.855
	11.885
	11.895
	11.905
	11.915
	11.970
	15.115
	15.130
	15.145
	15.170
	15.215
	15.255
	15.270
	15.355
	15.540
	17.620
	17.725
	17.735
	17.800
	17.805
	17.835
	17.865
	21.610
	21.620
	21.625
	21.665
	21.680
	21.720
	21.735
	21.745
"Radio Liberty"*	3.990
	5.955
	6.095
	7.145
	7.155
	7.180
	7.220
	7.235
	7.285
	7.295
	9.520
	9.555
	9.610
	9.660
	9.680
	9.750
	11.725
	11.770
	11.870
	11.915

	MHz
"Radio Liberty"*	11.935
	11.970
	15.049
	15.105
	15.125
	15.130
	15.225
	15.260
	15.290
	15.340
	15.370
	15.380
	15.410
	15.445
	17.720
	17.750
	17.780
	17.845
	17.855
	17.865
	17.875
	17.895
GHANA	
Accra	3.350
	4.915
	4.980
	5.990
	6.070
	6.130
	9.545
	9.760
	15.190
	21.545
Ejura	11.800
	11.850
	15.285
	21.720
GREECE	
Athens	6.045
	7.145
	7.295
	7.300
	9.605
	11.720
	11.725
	15.160
	15.340
	15.345
	15.425
	17.745
Janina	7.100
	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
MOZAMBIQUE	
Beira	7.205
Lourenco Marques	4.855
	4.865
	4.925
	6.050
	7.195
	11.780
	11.870
	15.295
Port Amelia	7.150
NEPAL	
Katmandu	7.165
	9.590
NETHERLANDS	
Hilversum	5.980
	5.995
	6.020
	6.085
	9.525
	9.590
	9.715
	11.730
	11.945
	15.180
	15.320
	15.425
	17.750
	17.810
	21.480
	21.500
	21.505
	21.504
	21.570
	21.575
	25.610
NETHERLAND ANTILLES	
Bonaire	6.110
	9.545
	9.590
	9.605
	9.675
	9.695
	9.730
	11.700
	11.715
	11.730
	11.740
	11.745
	11.865
	11.820
	11.845
	15.250
	15.285

	MHz
Bonaire	15.340
	15.350
	15.435
NEW CALEDONIA	
Noumea	7.170
NEW ZEALAND	
Wellington	9.520
	9.540
	9.755
	11.705
	11.780
	11.820
	15.110
NICARAGUA	
Managua	9.710
NIGER	
Niamey	3.260
NIGERIA	
Benin City	4.932
Enugu	4.855
	6.035
	6.105
	6.145
	7.301
Ibadan	3.204
Kaduna	3.326
	6.090
	6.175
Lagos	3.985
	4.990
	7.115
	7.185
	7.255
	7.275
	7.285
	9.520
	9.690
	11.705
	11.715
	11.770
	11.775
	11.840
	11.875
	11.915
	15.120
	15.130
	15.155
	15.255
	15.330
	15.365
	17.710
	17.735
	17.780
	21.450
	21.455
	21.465

	MHz
Lagos	21.475
	21.485
	21.490
	21.500
	21.510
NORWAY	
Frederikstad	7.210
	7.240
	9.550
	9.610
	9.645
	11.735
	11.850
	11.860
	15.175
	15.345
	17.825
	21.655
	21.670
	21.730
	25.730
	25.900
Tromsö	7.215
	11.735
PAKISTAN	
Dacca	5.970
	5.985
	21.685
Islamabad	11.705
	15.110
Karachi	4.965
	6.070
	6.125
	7.100
	7.125
	7.135
	7.215
	7.235
	7.240
	7.275
	9.645
	9.700
	9.750
	11.735
	11.740
	11.745
	11.770
	11.805
	11.875
	11.885
	11.890
	11.895
	11.965
	11.970
	11.985
	15.100

	MHz
Pakistan—cont.	
Karachi	15.105
	15.185
	15.190
	15.200
	15.205
	15.230
	15.315
	15.325
	15.330
	15.335
	15.340
	15.345
	15.360
	15.380
	15.450
	15.523
	17.745
	17.800
	17.815
	17.825
	17.835
	17.840
	17.845
	17.850
	17.855
	17.945
	18.080
	21.590
Peshawar	6.145
	6.150
Quetta	5.965
PAPUA	
Port Moresby	9.520
PARAGUAY	
Ascuncion	6.025
Concepcion	11.915
Encarnacion	11.945
Villarica	5.975
PERU	
Chachapayas	9.655
Iquitos	4.815
	5.009
	9.625
Jaen	5.005
Lima	5.950
	5.970
	5.980
	6.045
	6.070
	6.080
	6.095
	9.560
	9.675
	15.150
	15.155
Puno	9.565
	9.570
Tarapoto	9.710
Tumbes	5.990
PHILIPPINES	
Bocaue	6.120
	7.225
	7.230
	9.505
	9.715
	11.855
	11.890
	11.920
	15.300
	15.385
	15.440
	17.810
	21.515
Malolo	9.580
	11.965
	15.175
	15.365
	15.410
Poro	3.286
	6.170
	7.275
	9.530
	9.545
	9.555
	9.560
	9.615
	11.730
	11.775
	11.790
	11.805
	11.865
	11.930
	15.155
	15.165
	15.175
	15.210
	15.250
	15.290
	15.345
	15.365
	15.395
	15.410
	15.440
	17.735
	17.750
	17.810
	17.825
	17.830
	21.570
	21.630
Tinang	11.715
Tinang	15.155
Valenzuela	6.030
POLAND	
Warsaw	5.970
	5.995
	6.005
	6.010
	6.135
	7.125
	7.145
	7.200
	7.270
	7.285
	9.505
	9.525
	9.540
	9.550
	9.570
	9.635
	9.675
	11.700
	11.720
	11.725
	11.740
	11.760
	11.775
	11.780
	11.790
	11.800
	11.815
	11.840
	11.880
	11.955
	11.990
	15.120
	15.180
	15.210
	15.210
	15.275
	17.735
	17.800
	17.865
PORTUGAL	
Lisbon	6.025
	6.155
	6.185
	7.130
	9.585
	9.630
	9.680
	9.695
	9.705
	9.740
	11.725
	11.735
	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
RUMANIA			6.075		9.530
Bucharest	5.990		7.160		9.570
	6.150		7.165		9.680
	7.175		7.235		9.705
	7.195		9.545		11.735
	7.225		11.715		11.785
	9.510		11.730		11.865
	9.570		11.830		11.875
	9.580		11.920		11.900
	9.590		11.965		15.220
	9.600		15.210		15.245
	11.725		15.365		15.360
	11.780		15.375		15.365
	11.790		15.395		15.395
	11.805	SALVADOR			17.790
	11.810	San Salvador	6.010		17.795
	11.820		9.550		17.805
	11.875	SAUDI ARABIA			17.825
	11.885	Jeddah	9.560		21.500
	11.905		9.670		21.535
	11.910		11.855		25.790
	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
Spain—cont.	
Madrid	7.180
	9.360
	9.370
	9.570
	9.605
	9.675
	9.760
	11.710
	11.800
	15.420
ST. THOMAS ISLAND	
Sao Tome	4.807
SUDAN	
Omdurman	4.993
	7.200
	9.505
	11.835
	21.455
SWAN ISLAND	
Radio America	6.000
SWEDEN	
Hörby	5.990
	6.065
	9.625
	9.760
	11.705
	11.765
	11.790
	11.805
	11.810
	11.865
	11.880
	11.915
	15.240
	15.275
	15.310
	15.315
	15.445
	17.800
	17.840
	17.845
	17.865
	21.585
	21.675
	21.690
SWITZERLAND	
Berne	3.985
	5.985
	6.015
	6.120
	6.165
	7.970
	9.665
	9.720
	9.535
Berne	9.590
	9.595
	9.695
	11.715
	11.775
	11.845
	11.865
	11.880
	11.895
	15.125
	7.250
	15.180
	15.305
	15.430
	17.795
	17.830
	17.845
	17.855
	21.520
	21.540
Beromünster	7.210
SYRIA	
Damascus	5.960
	6.200
	7.105
	7.145
	7.235
	11.915
	15.185
Sabboura	9.585
	15.165
	15.290
	17.865
TAHITI	
Papeete	6.135
	11.825
TAIWAN (FORMOSA)	
Minhsiung	7.130
	7.150
	7.185
	9.530
	11.905
	11.945
	11.970
	11.975
	15.280
	15.320
Panchiao	9.685
	11.825
	11.860
	15.345
	17.890
Taichung	7.110
	9.745
Taipei	6.105
	7.245
	7.280
Taipei	9.580
	9.765
	11.725
	15.125
	15.280
	15.325
	15.345
	15.370
	17.720
Tamsui	6.040
TANZANIA	
Dar es Salaam	5.050
	5.980
	5.985
	9.550
	15.435
Marhubi	9.550
Zanzibar	3.339
TCHAD	
Fort Lamy	4.905
	11.760
THAILAND	
Bangkok	6.010
	6.060
	6.070
	6.095
	6.105
	6.140
	6.195
	6.200
	6.405
	7.105
	7.115
	7.140
	7.230
	9.423
	9.655
	9.730
	11.805
	11.910
	11.915
	15.235
TOGOLAND	
Lome	3.222
	5.047
	7.265
TUNISIA	
Tunis	5.985
	6.170
	6.195
	11.935
	11.970
	21.580
Sfax	11.900
	11.910
	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.

	MHz
U. K. —cont.	
London	11.840
	11.850
	11.860
	11.865
	11.870
	11.880
	11.890
	11.900
	11.905
	11.910
	11.915
	11.925
	11.930
	11.945
	11.955
	11.960
	11.965
	11.970
	12.040
	12.095
	12.182
	15.070
	15.105
	15.140
	15.180
	15.195
	15.200
	15.205
	15.220
	15.235
	15.245
	15.260
	15.280
	15.285
	15.290
	15.300
	15.310
	15.375
	15.390
	15.435
	15.780
	15.913
	17.695
	17.705
	17.715
	17.740
	17.790
	17.800
	17.810
	17.820
	17.855
	17.865
	17.870
	17.880
	17.885

	MHz
London	18.080
	21.455
	21.470
	21.510
	21.520
	21.530
	21.535
	21.550
	21.590
	21.610
	21.630
	21.640
	21.660
	21.670
	21.680
	21.690
	21.710
	21.740
	25.650
	25.670
	25.710
	25.750
	25.840
	25.920
	26.080
UPPER VOLTA	
Ougadougou	4.813
URUGUAY	
Melo	15.230
Montevideo	6.000
	6.035
	6.040
	6.075
	6.115
	6.125
	6.140
	6.155
	9.515
	9.595
	9.620
	11.735
	11.835
	11.885
	11.900
	15.275
	15.355
U. S. A.	
Bethany	7.280
	9.525
	9.590
	9.565
	9.755
	11.830
	11.875
	11.890
	15.160

	MHz
Bethany	15.330
	17.750
	17.785
	17.790
	17.850
	17.890
	21.485
	21.515
	21.590
	21.650
Boston, Mass.	5.985
	9.575
	9.615
	9.690
	11.730
	11.740
	11.855
	11.905
	11.970
	15.105
	15.130
	15.215
	15.265
	15.355
	15.370
	15.440
	17.730
	17.835
	17.840
	17.845
	21.465
	21.525
	21.530
	21.580
	21.715
	21.725
Delano, Cal.	5.955
	5.965
	6.125
	6.145
	9.545
	9.700
	11.770
	11.805
	11.830
	11.850
	11.875
	17.705
	17.800
	17.810
	17.840
	17.850
	17.895
	21.460
	21.500
	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
Erevan	4.930
	5.740
	7.270
	9.685
	11.765
	21.505
Frunze	4.010
	11.790
	11.820
	15.100
	15.415
	17.785
	17.825
	21.515
	21.530
	21.555
	21.625
Garovka	15.255
Gorki	11.860
	15.265
	15.385
Guryev	4.565
Irkutsk	6.050
	6.090
	9.350
	9.555
	9.725
	11.905
	11.910
	15.105
	15.285
	15.400
	17.730
	17.805
Ivanofrankovsk	9.665
	9.760
	15.190
Kalatch	15.200
	21.655
Kallinin	15.470
	21.635
Kaunas	5.960
	11.870
	15.325
	17.885
	17.895
Kazan	6.175
	9.580
	9.645
	11.805
	11.845
	11.850
	11.965
	15.250
	15.260
Kazan	15.320
	17.720
	21.705
Khabarovsk	4.405
	6.020
	7.285
	9.645
	9.790
	10.865
	11.815
	11.870
	21.630
Kharkov	11.950
Khanty Mansiysk	4.520
Kherputchi	15.125
Kiev	4.940
	6.020
	6.165
	7.230
Komsomolsk	6.080
	7.280
	11.980
	15.375
	17.890
Krasnoyarsk	6.015
	7.130
	7.200
	7.265
	7.295
	9.515
	9.620
	11.780
	11.835
	11.860
	11.940
	15.320
	17.700
	17.755
	21.670
Kursk	11.775
	17.745
	17.750
	17.860
	21.540
Kzyl Orda	4.100
Leningrad	4.780
	6.655
	9.520
	9.765
	11.630
	11.700
	11.755
	11.765
	15.245
	15.375
Leningrad	21.600
	21.730
Lvov	6.155
	7.150
	7.160
	7.165
	9.705
	15.170
	15.175
	21.565
Magadan	4.040
	4.820
	5.940
	10.870
	7.380
Minsk	5.940
	7.260
	7.275
	7.320
	9.655
	9.660
	11.745
	15.150
	21.585
Moscow	4.860
	5.740
	5.900
	5.910
	5.960
	5.975
	6.000
	6.010
	6.020
	6.045
	6.130
	6.145
	7.100
	7.135
	7.155
	7.170
	7.190
	7.205
	7.215
	7.220
	7.235
	7.280
	7.290
	7.295
	7.315
	7.340
	7.350
	7.360
	7.370
	7.390
	7.400
	7.420

	MHz		MHz		MHz
U. S. S. R. —cont.		Moscow	15.270	Orenburg	21.495
Moscow	7.440		15.360	Petropavlovsk	4.055
	9.450		15.410		6.190
	9.470		15.420		9.540
	9.480		15.425		11.690
	9.490		15.430		15.140
	9.530		15.460		15.180
	9.550		15.780		17.880
	9.565		16.250	Petrozavodsk	5.065
	9.620		17.705		7.300
	9.625		17.710	Riazan	6.185
	9.640		17.735		8.265
	9.650		17.790		9.570
	9.670		17.800		9.720
	9.685		17.825		11.790
	9.695		17.830		11.890
	9.700		17.835		11.970
	9.730		17.840		15.140
	9.740		17.850		15.440
	9.745		17.865	Riga	7.140
	9.775		17.870		12.020
	9.780		17.900		15.220
	9.800		17.910		17.715
	9.810		19.725		21.615
	9.818		21.575	Semipalatinsk	4.080
	9.850		21.610	Serpukhov	5.990
	10.190	Murmansk	11.820		7.190
	10.620		15.300		9.560
	10.740	Novosibirsk	4.885		9.605
	11.198		7.145		9.630
	11.570		7.170		11.700
	11.575		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
U. S. S. R. —cont.	
Sverdlovsk	15.370
	15.405
	17.845
	17.890
Tallin	6.055
	6.085
	17.805
	21.715
Tashkent	4.850
	5.925
	5.970
	6.125
	6.180
	9.540
	9.600
	11.925
	15.395
	15.440
Tbilisi	5.040
	5.980
	9.725
	11.755
	11.820
	11.900
	15.335
Tula	7.110
	7.120
	7.145
	7.160
	7.195
	7.240
	7.250
	9.505
	9.735
	12.030
	15.135
	15.145
	17.880
	21.460
	21.490
Tyumen	4.895
Ulan Ude	4.795
Uralsk	4.873
Vilnius	6.200
Vinnitsa	11.730
	11.735
	11.785
	15.235
	15.365
Vladivostok	5.015
	6.095
	6.130
	6.165
	7.210
	9.770
Vladivostok	11.755
	11.990
	12.040
Volgograd	6.075
Vologda	15.350
Voronezh	9.675
	12.045
	12.060
	15.225
	15.230
	15.295
	15.305
Yakutsk	4.395
VATICAN STATE	
Vatican City	6.145
	6.190
	7.160
	7.220
	7.250
	9.540
	9.580
	9.605
	9.615
	9.630
	9.645
	9.670
	9.690
	9.765
	9.770
	11.700
	11.705
	11.730
	11.785
	11.885
	11.895
	11.905
	15.120
	15.135
	15.155
	15.185
	15.200
	15.210
	15.255
	15.285
	17.730
	17.840
	17.860
	17.885
	21.485
	21.525
	21.560
	21.570
	21.690
	21.700
VENEZUELA	
Apure	4.820
Barquisimeto	4.800
	4.900
	4.940
	4.990
	9.510
Bocono	5.009
Caracas	3.245
	3.345
	4.780
	4.880
	4.890
	4.920
	4.960
	4.970
	5.020
	5.030
	5.050
	6.110
	6.130
	6.170
	11.725
	15.395
Cuidad Bolivar	4.772
Coro	4.950
Lara	4.800
Maracaibo	4.810
	4.860
	4.910
	5.040
Maturin	3.325
	3.355
Merida	3.395
Portenza	4.790
San Antonio	4.760
San Cristobal	4.930
	4.980
	9.570
Tachira	4.830
Trujillo	3.295
Valera	4.840
VIETNAM (NORTH)	
Dalat	6.115
Hanoi	4.684
	5.985
	6.000
	6.675
	7.145
	7.215
	7.290
	9.430
	9.530
	9.840
	11.760
	11.775
	11.780
	11.840

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

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.

		kW
AUSTRIA		
6	Lichtenberg	100
7	Schoeckl	100
13	Gaisberg	100
14	Schoeckl	100
26	Gaisberg	100
27	Lichtenberg	100
28	Schoeckl	100
33	Jauerling	100
35	Lichtenberg	100
40	Gaisberg	100
EIRE		
9	Truskmore	120
22	Mullaghanish	120
24	Maghera	120
26	Mount Leister	120
FRANCE		
4	Carcassonne	125
6	Lille	150
7	Le Mans	100
	Reims	150
8	Limoges	150
10	Rennes	100
12	Nantes	200
13	Carcassonne	125
14	Niort	200
17	Rouen	100
19	Le Mans	100
20	Limoges	150
22	Rennes	100
23	Rouen	100
24	Nantes	200
26	Lille	150
31	Niort	200
32	Carcassonne	125
	Rouen	100
33	Reims	150
	Le Mans	100
35	Limoges	150
37	Lille	150
38	Rennes	100
39	Reims	150
40	Nantes	200
41	Niort	200

		kW
GERMANY (East)		
13	Marlow	100
15	Brocken	100
16	Sonneberg	100
17	Leipzig	100
24	Sonneberg	100
27	Schwerin	100
32	Leipzig	100
34	Inselsberg	100
35	Brocken	100
	Berlin	100
38	Schwerin	100
GERMANY (West)		
3	Gottelborner Hoehe	100
4	Bremen	100
6	Gruenten/Allgaeu	100
	Heidelberg	100
	Langenberg	100
8	Wendelstein	100
10	Harz	100
	Stuttgart	100
12	Gruenten/Allgaeu	100
	Ochsenkopf	100
	Teutoburger Wald	100
14	Göttelborner Hoehe	100
17	Brotjacklriegel	100
	Harz	100
	Stuttgart	100
20	Kreuzberg/Rhoen	100
21	Teutoburger Wald	100
22	Wendelstein	100
23	Bremen	100
	Waldenburg	100
26	Stuttgart	100
27	Langenberg	100
28	Göttelborner Hoehe	100
30	Ochsenkopf	100
32	Brotjacklriegel	100
	Waldenburg	100
33	Teutoburger Wald	100
36	Heidelberg	100
37	Harz	100
38	Kreuzberg/Rhoen	100
39	Waldenburg	100
41	Langenberg	100
43	Heidelberg	100
51	Stuttgart (AFN)	100

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

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

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