

radio listeners' guide

1996 edition £3.95

*The eighth edition of the guide to
UK radio stations*



*Radio 1, 2, 3, 4, 5 Live, Classic FM, Virgin
Radio, Talk Radio, local stations and more...*

1996



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how to use the guide

Welcome to the 1996 edition of the **Radio Listeners' Guide**.

The guide shows the frequencies and locations for all the radio stations in the UK. With information on BBC Radio, Independent Radio and other interesting radio stations, you will be surprised at how many stations there are to listen to. The maps show which stations you are likely to receive in any particular area.

Using the Guide

The Guide has been organised so that the various station types are listed separately. BBC Radios 1,2,3,4 or 5 Live are listed separately from national commercial stations such as Classic FM or Virgin. BBC local stations are listed separately from independent radio stations.

The medium wave frequencies for Radio 4, Radio Scotland, Radio Wales and Radio Ulster which broadcast on both medium wave and FM are listed separately from the station's FM frequencies.

As a general rule you should try the FM frequency first, as FM usually provides better reception, and gives stereo when available.

This year we have added quick reference maps, (found in the centre of the guide) for the main national radio stations. So, for example, if you are looking for Radio 4's frequency while visiting Oxfordshire, look at the quick reference map for Radio 4.

If the frequency this shows doesn't give you good reception, you must first decide which broad category your station fits. With the Radio 4 example above, you would need to look under the section marked 'BBC FM Radio in England'. Look at the map for this section to see which main or high power transmitter is nearest to you; and tune-in to the frequency listed for that transmitter. If this gives poor reception, try the nearest relay station to you, or if there is one, another nearby main transmitter.

Good listening!

Changes to the Guide

As well as updating the RLG each year we are always looking for ways in which to improve it. Many of the suggestions come from you.

So if you have any ideas or suggestions or simply spot a mistake - please let us know.

You will find the address to write to below.

The Winners

The winners of last years free radios were-

Mr D Quirke, Halifax

Mr RL Bickerton, Harrogate

Mrs J Chinn, Carnforth

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1995 the Year of Personality Radio.

A better year for **Radio 1** - with February seeing the signing of Chris Evans as its new high profile breakfast show presenter. With the radical changes in the station over, and a stabilized share of listening - the network at last offers a credible alternative to the proliferation of independents playing a never ending diet of chart-based adult contemporary pop.

Radio 3, somewhat later in the year, embarked on its key signing. Paul Gambaccini poached from Classic FM arrived to host a morning show. As well as this, the station is now on air an hour earlier each day and has not discounted the possibility of 24 hour broadcasting. The gloves are at last off in its battle for listeners with Classic FM. Radio 3 stalwarts are already throwing their hands up in horror at the prospect of changes to their station!

Talk Radio after its disastrous launch in February 1995, dispatched its 'shock jock' scapegoats and claimed a "new maturity"; bringing in Simon Bates and Jonathan King! Steve Wright has also signed a contract with Talk Radio for a series of programmes. Despite its shaky start, Talk Radio is in fact the fastest growing national station, with a 21% increase in its share of listening between June and September 1995. (See RAJAR figures on page 4.)

Not to be left out from these high-profile signings, **Radio 5 Live** brings Brian Hayes into its fold, to present the weekend breakfast show.

What's in a name?

Would you believe it - just when I thought I'd finished the listings for this year's Independent Local stations - a host of stations decide to change their names! Here are the most recent ones.

JFM 102.2 and **JFM 100.4** perform a 'U' turn, changing back to their old name **Jazz FM!**

From GWR's recently acquired Chiltern stations, comes a new service **B 97 Chiltern FM** - created from splitting off Chiltern FM's Bedford frequency. In the same takeover Milton Keynes' dance station, **Horizon Radio**, changes to **FM 103 Horizon**, now with an adult contemporary music mix.

County Sound emerges from the recently reallocated Mercury licences - and although initially broadcasting on FM 96.4 and 97.1 MHz, will change to 1476 kHz medium wave at Christmas time. When this happens, two new stations, **Delta Radio** and **Eagle**, will adopt County's current FM frequencies. (Mercury meanwhile keep their Reigate and Crawley frequencies, so Mercury and Mercury Extra AM

continue - albeit with smaller coverage areas).

Broadland and **SGR** split their AM frequencies to create **Amber**, a new 'gold' format station. And in early 1996 the BBC will merge **Radio Oxford** and **Radio Berkshire** to create **BBC Thames Valley**, in what appears to be a cost cutting exercise. This follows the merger of **BBC CWR** (Coventry and Warwickshire) with **Radio WM** (West Midlands) in May 95.

New local stations to look out for

Other new stations to look out for are **A1 FM** (Darlington), **South West Sussex Radio** (Chichester, Bognor, Littlehampton), **Asian Sound** (Lancashire including Blackburn Burnley and Northern Manchester). As with most stations in the pipeline, names may change before they get on air.

Digital Audio Broadcasting (DAB)

The BBC have been busy promoting DAB.

Liz Forgan, Managing Director of BBC Network Radio described the launch of DAB on the 27 September as a "historic moment" marking the "dawn of a third age of radio - the technological progression from AM which is now 100 years old, and FM, now 50 years old, into the digital multi-media world of the 21st century. Consumers will get superb quality sound, a fade-free signal and a whole range of new services on simple, easy-to-use sets."

Despite Liz Forgan's upbeat comments, elsewhere concerns have been voiced. Two main ones stand out. First, that although DAB transmissions will cover 60% of the population by 1998, the areas where DAB coverage is as yet unplanned - the relatively remote and unpopulated areas of Mid and West Wales and Northern Scotland which currently experience reception problems, and therefore could benefit most from DAB, will not be served in the immediate future.

Second, local commercial operators are concerned that the BBC will pinch all best slots on DAB for themselves!

It is still very early days for DAB. Receivers are few and far between, and so far are available only as car radios. Grundig as far as I know are the only manufacturer to have launched a set. It costs £2199.99 for the front end (the bit you see in the car's dashboard) the DAB decoder and aerial. Installation costs extra! Other manufacturers are apparently having problems keeping the size of the set down. Portable sets are still a long way off.

news - listening figures

In October 1995, Radio Joint Audience Research Ltd, RAJAR published their quarterly summary of radio listening figures. These covered the period 26 June 95 - 17 Sep 95. The figures are below, with the previous 2 years alongside for comparison.

	Sep-93	Sep-94	Sep-95	percentage change Sep 94 - Sep 95
Weekly reach (%)*	88%	85%	86%	1.2%
Average hours spent listening	21.2	21.1	20.7	-1.9%
Share of listening**				
BBC's share of listening	56.1	48.6	47.8	-1.6%
Commercial Radio's share	41.1	49.0	50.1	2.2%
BBC Radio 1	19.6	11.8	11.8	0.0%
BBC Radio 2	12.7	12.9	11.8	-8.5%
BBC Radio 3	1.4	1.1	1.1	0.0%
BBC Radio 4	10.0	10.5	10.3	-1.9%
BBC Radio 5 Live	2.0	2.4	3.0	25.0%
Atlantic 252	3.0	4.3	3.5	-18.6%
Classic FM	2.4	2.8	2.9	3.6%
Talk Radio UK	-	-	1.7	-
Virgin 1215 (AM only)	2.1	3.6	3.3	-8.3%
Local BBC	10.4	9.9	9.7	-2.0%
Local Commercial	33.6	38.2	38.7	1.3%

* Percentage of adults who listen to a station for at least 5 minutes in the course of an average week.

** Percentage of total listening time accounted for by a station.

The success of the above figures is **Radio 5 Live** with a 25% increase in its share of listening between Sep 94 - Sep 95 - even better than their growth figures for 93-94 (20%).

Classic FM continues to do well. Listening grew by 3.6% although not as good as last year's growth (16.7%).

The novelty of **Atlantic 252** and **Virgin Radio's** music mixes seems to have worn off. Less than perfect medium wave (AM) coverage, and strong competition from local commercial stations have reduced the share of listening for both stations.

Radio 1 has maintained its position; not an unhealthy state, bearing in mind the continual increase in the number of its commercial competitors. It's programming mix, and emphasis on live music, seem to strike a chord with those tired of the 'safer music mixes', and limited repertoire of some commercial stations.

Despite being *Sony Station of the Year* in 1995, **Radio 2** has seen an 8.5% fall in its share of listening. We're not quite sure why?

Radio 3 maintains its position. Supposedly unpopular changes to its programming have yet

to drive its loyal listeners away.

Despite a shaky launch in February 95, **Talk Radio** has in fact been growing quite rapidly in terms of listening figures. This last quarter's RAJAR figures must have been of some comfort to Talk's management. They showed that in the period June to September 95, **Talk Radio** was the fastest growing national station with a growth in its share of listening of 21%. During the same period **Radio 5 Live** saw only a 10% increase in its share.

Although still the top speech based station, **Radio 4's** share of listening fell by 1.9%. Competition from speech based stations and **Classic FM**, the loss of long wave listeners, and no marked improvements to the station during the last year, all play their part.

With the inexorable growth in the number of their commercial competitors, **BBC local** stations almost inevitably take a smaller cut of the listening each year. However with **BBC Radio Gloucestershire's** *Sony* award for 'best local station', and **Liz Green** of **BBC Radio Leeds** voted 'local broadcaster of the year', all is not yet lost!

news - from the Radio Authority

What's happening in 1995/96

The Authority intends to advertise licences for the two remaining areas on its current working list: Chesterfield (from mid-1996), and Heads of Welsh Valleys (November 1995).

105-108 MHz

The Authority will begin advertising other licences from its new working list of 33 areas (including four regional licences) from Autumn 1995 which, on the whole, would utilise the FM frequencies between 105-108 MHz. It is hoped that around two licences a month will be advertised; on this basis, advertisement of this phase of licences should take approximately 18 months to complete. Licences are usually advertised in the order in which frequencies are cleared. The following is an initial working list and other areas may be added to it in the future (the areas in each section are listed alphabetically - not in the order in which they will be advertised):

Regional

East of England (July 1996), East Midlands (February 1996), Solent (October 1996), and Yorkshire (November 1995).

Greater London

The Authority intends to advertise a further licence on FM for Greater London in April 1996.

Generally more localised areas

Basingstoke, Caernarfon, Cambridge, Dundee, Fife, Great Yarmouth & Lowestoft, Hinckley, Huddersfield, Medway Towns, North-East Gloucestershire, Oban, Oxford, Peterhead, South-East Staffordshire, Stratford-on-Avon (advertised but not yet awarded), Tameside (Ashton-under-Lyne), Western Isles (Stornoway), Wigan, Wolverhampton, and Yorkshire Dales.

Small-scale (maximum coverage size to be specified at the time of advertisement)

The Authority intends to adopt a new policy of advertising the availability of one or more small-scale local licences that may be awarded for a service (or services) for any locality (or in different localities) within a wider area but without specifying which locality at the time of advertisement. Those areas included on the list are:

Cheshire (e.g. Crewe or Macclesfield)
East London (e.g. Barking, Havering, Newham or Redbridge)
East Sussex (e.g. Brighton, Eastbourne, Hastings or Rye)
Kent Coast (e.g. Dover, Folkestone or Thanet)
Merseyside (e.g. Kirkby, Prescot or Southport)
Mid-Essex (e.g. Basildon, Braintree or Brentwood)
South-East London (e.g. Bromley or Lewisham)
South-West London (e.g. Kingston-upon-Thames or Sutton)

Re-advertisement

By September 1995 the Authority had completed the re-advertisement of the 125 existing licences (including FM/AM pairs in many areas) which were originally awarded by its predecessor, the IBA. In February or March 1996 the Authority should award the last licences in this batch. So far, nine re-advertised licences have been awarded to new applicants rather than the incumbents. Buzz FM's licence was awarded to Choice FM Birmingham; DevonAir's two licences were awarded to Gemini Radio; Leicester Sound (broadcasting as Sunrise East Midlands on AM) lost its licence to Sabras Sound (from 7 September 1995); LBC's two licences were awarded to London Radio; Sunset Radio's licence (Manchester) was awarded to Kiss 102; Radio Mercury's two licences (Guildford) were awarded to Surrey & North East Hampshire Radio (to provide two separate services from April 1996). During the re-advertisement period for the Haringey licence (North London), WNK, a station which shared a frequency with London Greek Radio (LGR), ceased broadcasting. LGR now broadcasts for 24 hours.

Information

Copies of the new working list of areas can be obtained from the Authority's Press Office.

*Information kindly supplied by Tracy Mullins,
Radio Authority Press and Information Officer.*

getting the best from your radio

The wave bands

More and more stations are becoming available on one wave band only. For general listening it is therefore important to have a radio that receives the three main bands: FM (or VHF), medium wave (or AM) and long wave. In addition, short wave will allow you to receive some international broadcasts. If you are purchasing a portable set, it will also enable you to tune to the BBC World Service while travelling abroad.

FM reception

The coverage of FM services in the UK is designed on the assumption that adequate outdoor aerials are provided.

FM radio waves travel directly, so for good FM reception your aerial needs to be 'in direct line of sight' with the transmitter. Obstacles in-between, such as hills, buildings and the like can scatter and absorb the signal.

Listening to FM on a portable set

For good indoor reception on portable radios, try positioning the radio at different points in a room. Reception is often better near a window, and generally, the higher the set the better the reception. For FM reception telescopic rod aerials should be fully extended, and tried at different angles until the best reception is found. Personal stereos often have a radio included which uses the headphone cable as the FM aerial.

The main types of FM aerial

There are two main types of FM outdoor aerial. The first is the directional multi-element Yagi array. This may have a number of elements. The more elements the higher the gain and the better the signal. Directional aerials are set up so they point directly at one transmitter. This could be your nearest main transmitter, broadcasting BBC 1,2,3 and 4, or another transmitter, perhaps broadcasting your favourite local station.

One interesting point the BBC make, is that especially near the South East coast, listeners should use a good quality directional aerial to minimise interference from continental radio stations.

The second type is the omni-directional aerial. This looks all round with no directional

properties. The simplest of these is the Vertical Single Dipole. More elaborate and growing more popular is the circular folded dipole type. The need for omni-directional aerials has arisen with the proliferation of local radio stations that come in from all directions.

If it's quality that you're after, then you need to have a highly directional aerial pointing at the station of your choice. You will then have to put up with perhaps less than perfect reception from other stations transmitting from differing locations, although you could perhaps also install an omni-directional aerial for these.

What does it cost?

Aerial costs vary, with a simple omni-directional aerial costing about £15 and a more complex 5 element directional at £30. Unless you are sure of what you are doing it is probably best to find a professional installer. For between £30-60 they will supply and install an average set up. They will have specialist tuning aids, and if local, should have knowledge of local reception difficulties.

In good reception areas the aerial could be installed in the loft or roof space. However they must be kept clear of metal objects. The metal foil cladding used in some forms of heat insulation, can cause problems.

Polarisation

Traditionally, fixed aerials have been aligned with their elements positioned horizontally. However, to help car radio and indoor reception, horizontal-only transmissions, have nearly all been replaced by mixed (horizontal and vertical) transmissions. According to the Radio Authority, "It is better to align the aerial vertically, unless you need extra directional selectivity to reduce interference from other stations, or from reflected signals which may interfere with the most direct signal".

Listening to the medium wave band

Other than in cars, medium wave is usually received by the radio or personal stereos internal aerial. On hi-fi tuners this may consist of an external wire loop on a frame.

To find the best reception, the radio or loop needs to be moved round to find the best position. In other words you need to find the position where you get the strongest signal

from your station, and the minimum interference from other stations on the same, or nearby frequencies. Watch out also for interference from electrical equipment, such as fluorescent tubes, televisions and videos.

Medium waves tend to travel unpredictably, with part of the transmission bouncing off the ionosphere. As they bounce they may return to the earth hundreds of miles away. This can lead to interference from other medium wave stations. At night this effect can be worse, as the lack of sunlight lowers the ionosphere.

Buying new equipment

The following advice comes from the Radio Authority. "With more and more services available on one waveband only, it is important to try out reception on all wavebands. Check

for ease of tuning and quality of both reception and sound. Medium wave reception inside a shop may be severely affected by televisions on nearby display, and the steel frame of the building structure."

New developments

It is also worth being aware of the latest developments. Push button tuning, digital frequency selection and RDS are all relatively new features aimed to make the listener's life more easy.

As Mick Gleave of the BBC Engineering Information says, "To get good reception it is the sensitivity and selectivity of a receiver that are the most important features. We have found that there is a strong correlation between price and a receiver's performance in these two areas".

listening in car or caravan

There is now a greater choice of car audio equipment than ever before: radio, cassette, CD, RDS, DAT, DAB etc with an equally wide range in price. Unlike domestic equipment where you fit a 13 amp plug and switch on, car audio operates in a hostile environment and requires skillful installation to get the best performance.

Installing the type of equipment you want

Ideally go to a specialist and discuss your requirements. Once you have decided upon the equipment in the right price range, obtain a couple of quotes for the job. However, remember that the cheapest quote is not necessarily the best. The cheaper quote may be skimping on the installation (poor quality cabling and connectors) and after sales service.

The importance of the aerial

Having decided on the main equipment do not try and save money by purchasing a poor quality aerial. The aerial feeds the radio signal to the radio receiver, a poor aerial means poor reception.

This is particularly important for good FM reception. Aerials should preferably be roof mounted (where the extra height improves reception and reduces interference), vertical

and about 32 inches long. Slant mounted and horizontal aerials such as those incorporated into the rear window of the car have directional properties. This may cause reception to vary as the car changes direction. Most car aerials, and incidentally those on portable radios, are too short.

In caravan

Nowadays most listeners take their radio with them when they go on holiday in their caravan. Because holiday areas are often well away from large centres of population, FM stereo coverage may not be as good as you are used to. Also it is asking rather a lot of a FM tuner to operate inside the caravan (which is an almost perfect screened room) unless it has an outside aerial.

A simple and relatively cheap omni-directional aerial such as Antiference's 'All-Rounder' or 'Radio Rod' is useful for a caravan, boat or long distance lorry. Alternatively, an omni-directional, combined TV and Radio aerial is available, for about £90.

letters

Letters do not necessarily express the views of the RLG, and may be edited for publication.

Lament for lost voices

Thank goodness for your Guide! With so many changes in radio-land, your publication is a 'must' for us bemused, bothered and bewildered listeners.

Having been saddened by some of the country's best presenters no longer being on air, I am submitting a small blank verse.

Now, when I come home.

The familiar voices, easy, charismatic

Are no longer there for me.

It's the end of my rainbow.

No pot of gold waiting.

Just dead air

Thin and cold as a snowflake.

Elizabeth Mark,

Shoreham-by-Sea

Sony ICF-M50RDS

In response to your request in the 1995 Guide for information concerning experience with particular radios - I offer my comments on the Sony ICF-M50RDS.

The radio is (at time of writing) the cheapest RDS radio available - its list price is £80. It has 5 preset stations on each band, LW, MW and FM. Tuning up and down is very easy and quick, though there are no search facilities. Sensitivity is not very good and selectivity is worse, and image rejection is particularly poor.

RDS works adequately, showing station name and correcting the clock automatically. Traffic information is rather erratic. Medium and long wave reception are disappointing for



a radio of this price. Sensitivity is poor; there is a lot of hiss. In conclusion, I have found this radio very disappointing and I could only recommend it for someone only requiring very local signals and to whom RDS station name information is of prime importance.

John Green, Leigh, Lancs

There used to be a wonderful time signal from Berlin on 4.525MHz, broadcast continually 24hrs a day. Encoded in binary in the time signal were the hours and minutes, relative to UTC, of the following beep. When the Berlin wall fell down, it must have knocked the clock over, as I haven't been able to find the clock for a few years now.

I like to keep my watch within plus or minus 5 seconds of UTC, as I have to set the clock in computers I test, and afterwards I don't want to miss opening time! So how about a small section in the Guide, showing where you can find time signals on radio. I can't be the only one in the country who doesn't want to miss opening time.

Paul Burbidge, Bracknell
(Look no further - we've included time signals in the info section at the back of this year's guide!)

Talk Radio - Who's Listening?

As a dedicated Radio 4 listener I thought I would try out this brash newcomer to speech radio. My trial period lasted through the summer months of 1995 and I approached the experiment with the dedication befitting a 'Today' and 'Any Questions?' listener.

The aim? To form an objective view of the new station. I must admit to some backsliding - sneaking back to Radio 4 for a dose of the Archers for example.

My first impressions were not good. Wall-to-wall phone-ins sounded like a 'format from hell' radio to me.

Did I end up with a nice balanced view of the station? Well, no... but then Talk Radio doesn't lend itself to objectivity. It glories in subjective views - and plenty of them.

The presenters range from the serious Dr David Starkey, to the banal Terry Christian (*no longer with the station!*, ed). The backbone of the station were the daily presenters, Scott Chisholm, Tommy Boyd, Anna Raeburn, recently supplemented by Simon Bates and Jonathan King.

If these were pub discussions and the analogy is not a million miles away, the presenters would be there banging their fists on the table! I lost count of the number of times what was going on the air spilled over into a family debate (one way of getting your teenagers to talk to you!).

Talk Radio is worth trying out - if only to find out if you love or loathe it. Back in the arms of Radio 4, I still can't resist the temptation of a few hours of Talk a week.

Paul Wride, Manchester

a guide to the main stations

Radio 1

24 hour FM pop and rock music. Aims "to be the sound of the young United Kingdom, supporting new talent and music and reflecting current trends and attitudes".

Radio 2

On air 24 hrs a day. Eclectic mix, including light music, folk, jazz, features and interviews. Sony Award Winning 'National Station of the Year 1995'.

Radio 3

Broadcasts from 0555-0100hrs. It is devoted to classical music, information about the arts and drama. Recent changes in its programming aimed to popularize its output, to compete with Classic FM.

Radio 4

The standard Radio 4 service is now on FM, from 0600-0100hrs. (It carries World Service programmes during the night). Programmes are speech based (not music), and include news, current affairs, documentaries, dramas, and comedy. Long wave carries opt-outs from the FM service at times during the day, programmes including the *Daily Service*, *Today in Parliament* and *Test Match Special* cricket commentary.

Radio 5 Live

News, sport and talk 24 hours a day.

Radio Scotland and Radio Nan Gaidheal

In addition to the UK BBC FM Network services, there are two additional FM services, Radio Scotland and Radio Nan Gaidheal. Radio Scotland also broadcasts on AM (MW).

Radio Scotland is available across the country during most hours. Programmes are originated from Glasgow, although for short periods during the day the following regions opt-out of the main service to provide Regional News and Travel. (Opt-outs from: Solway, Aberdeen, Orkney, Shetland, Inverness, Tweed and Tayside.)

When not carrying Radio Scotland programmes, Radio Nan Gaidheal provides programmes in the Gaelic Language to Western Scotland.

Radio Wales and Radio Cymru

In addition to the main BBC Network services, there are two additional services in Wales - Radio Cymru and Radio Wales.

The English language service, Radio Wales became established in 1978, and the Welsh language service followed a year later.

Radio Cymru carries a wide variety of programmes on FM. Music, news, drama and talk; aimed from Oct 95 at a wider and hopefully younger range of listeners.

Currently on AM, Radio Wales transmissions are gradually being introduced on FM.

BBC Radio Ulster

Radio Ulster's is on FM and AM. It broadcasts a wide variety of programmes from 0630-1930hrs and 2305-2359hrs Mon to Fri, and from 0900-2030hrs Sat/Sun. In the Londonderry area a local radio service - Radio Foyle, opts out from 0830-1700hrs Monday to Friday.

BBC World Service

A wide variety of programmes broadcast to the world 24 hrs a day. The cornerstone of its reputation is its news and current affairs output. Programmes can be heard on short wave, medium wave and long wave at various times of the day and on Radio 4 frequencies from 0100-0600hrs.

Classic FM

National station broadcasting on FM 24hrs a day. Classical music, interspersed with news, weather, business information, discussion programmes as well as other features.

Virgin Radio

National pop and rock music station on medium wave 24 hrs a day. Now also on 105.8 MHz (FM) in the Greater London area.

Talk Radio

National speech based commercial radio station on medium wave 24 hrs a day. Launched in Feb 95 as the 'country's most outrageous' radio station, the now toned down station, is based largely on phone-ins.

BBC Local Radio

BBC Local Radio is a talk-based service, focussing on local news, current affairs, information, community debate and local sport. Most stations are on air from 0600-midnight. Outside these hours they usually broadcast Radio 1, Radio 2 or the World Service.

Independent Local Radio

Independent local radio now covers the bulk of the UK. Programming is mixed, with news bulletins, travel information, short features, music (predominantly pop), chat shows and advertisements. Many stations are on air 24 hrs a day.

Community Radio Stations

Usually (and within the RLG) listed with independent local stations. They tend to be locally owned and controlled and run for pleasure and to serve the local community, rather than purely for profit. Community stations include Townland, Heartland, Ceredigion, Maldwyn, NECR, RTM, Stray FM, and Nevis Radio.

Atlantic 252

Atlantic 252 broadcasts pop and rock on 252kHz. The station is owned by RTE and Luxembourg. Based near Dublin it broadcasts on a 500kW transmitter. This covers most of the South and West of England and Wales.

The 1995 Sony Radio Awards

Kim Diment reviews the 1995 Sony Award winners

"There's no doubt that the Sony's are the top awards in radio and people desperately want to win them. Everyone on the team was delighted by our Gold and Silver Awards - and so were our listeners who wrote in to congratulate us". Roger Mosey, Editor of 'Today', BBC Radio 4.

"It was an unbelievable experience, I didn't walk on stage to collect the Award - I floated. It was particularly gratifying to win because we'd made this documentary with very few resources." Liam O'Donoghue, Chief reporter, City FM/Radio City Gold

Two very different stations from opposite ends of the radio spectrum celebrating their respective successes at the 1995 Sony Radio Awards.

Described by the judges as "the most authoritative, agenda-setting programme available on British radio," Radio 4's "Today" programme won a Gold in the *Speech-Based Breakfast Show* category and a Silver for *News and Current Affairs*.

Winning the *Documentary* Gold award, Radio City's programme about the Child Support Agency 'CSA: Making Daddy Pay' was, said the judges, "a shining example of the power of a documentary, if networked we believe that it would have had an impact on Government thinking."

The steadily-growing increase in the number of entries submitted from independent production companies was reflected in a clutch of Sony Awards in 1995. All Out Productions won the *Magazine Programme* award with 'Out This Week' broadcast on BBC Radio 5 Live. Wise Buddha Music Radio's mix of "intelligent music journalism" in 'Collins and Maconie's Hit Parade' broadcast on BBC Radio 1FM won the *Popular Music Programming* category.

Two independent production companies were pipped at the post for the *Popular Music Programme* which was won by BBC Radio Humberside for 'It Was Thirty Years Ago', inspired by the Beatles' visit to Hull in 1964. Another cultural icon, Leonard Cohen, was the subject of a series for BBC Radio 1FM which made "for an utterly compelling listen", picking up the Gold for *Arts/Music Feature*. In the category for *Specialist Music*, BBC Radio 3's 'Music of Madagascar' was adjudged "a masterpiece, using all the elements that make radio most magical - atmosphere, reportage and vivid journalism."

Captivating the judges in the *Short-Form*

Feature/Documentary category was the feature made by BBC Radio Wales. 'The Fly' was "a surprising delight, taking an original angle on a dull, even repellent subject and bringing it vividly to life." It was a good year for BBC Wales who also won a *News and Current Affairs* Gold award for their weekly investigative programme, 'Eye on Wales' which had, in the winning edition, "tackled head-on an ugly outbreak of organised racism in South Wales."

Radio 5 Live's success in its first year of broadcasting as a combined news and sports station was reflected in the Gold award for *Response to a News Event* which covered the IRA cease-fire. In addition, the network's controller, Jenny Abramsky was the recipient of the *Radio Academy Award*. In the opinion of the Academy the launch of this new national service represented the highest standards of professionalism.

Former hostage Terry Waite presented the *Reporter of the Year Award* to his cousin John Waite who reports on the BBC Radio 4 weekly series, 'Face the Facts'. The judges felt his work stood as "a fine example of the sort of investigative programme that radio does so well." Radio's ability to examine difficult subjects with tact and sensitivity was demonstrated by BBC GMR's winning *Topical Debates* entry. Their 'Talkback' edition on bullying showed "excellent quality of preparation, the presenter Mike West handled sympathetically and the programme provided enlightening insight into a very common problem."

For the first time ever, the world's most famous cycle race, The Tour de France, reached British shores and Southern FM's four-hour coverage of the gruelling race won the *Sports Award*.

"It was gratifying" said the judges with their tongues firmly in their cheeks, "to present the *Comedy Show Award* to a team of young performers taking their first faltering steps on the showbusiness ladder." With that, the ever-youthful team of BBC Radio 4's perennially popular 'I'm Sorry I Haven't A Clue' leapt on stage to receive the Gold from June Whitfield - and it took some time to get them off again!

For the second year running, Liz Green of BBC Radio Leeds was named *Local Broadcaster of the Year*. The judges praised her "animated style and natural warmth combined with her local knowledge."

**Terry Waite
presented the
Reporter of the Year
Award to his cousin
John Waite**



photo: MCP Photography

Working initially in radio as a producer, Liz Green only switched microphone sides in 1993. The *National Broadcaster of the Year* was named as Neil "Dr" Fox, of Capital FM whose profile, said the judges, "has steadily increased as a national broadcaster, in particular through his unique style of presentation of The Network Chart Show."

Capital Radio came away from the ceremony with two further awards, one for *Regional Station of the Year*, presented to the station for its "consistent brilliance of style and delivery over 22 years that has not been matched." The Chris Tarrant 'Breakfast Show' shared the Gold Award for *Music-Based Breakfast Show* with the Sarah Kennedy 'Early Show' on BBC Radio 2.

It was a good year for BBC Radio 2 which was also named as *UK Station of the Year*, an award which the Network's Contoller, Frances Line who is retiring this year was particularly proud of. The judges were impressed by the sheer range of Radio 2's editorial coverage, its high standards of presentation and highly effective promotional policy.

This range was exemplified in the mens' health campaign, 'Man Matters' which won a Gold award for *Service to the Community*. "This programming," said the judges "probably saved lives."

Local Station of the Year went to BBC Radio Gloucestershire, a station which "demonstrated an outstanding breadth of coverage providing news, entertainment, drama and debate with enthusiasm and professionalism."

The *Creative Writing Award* went to the Irish novelist, Ronan Bennet who recounted his time spent in prison at Long Kesh and was an "outstanding piece of reportage, a fine example of the way radio can give a writer a new and terrifyingly authentic voice in the witness of history." Ireland in the 1940's was the setting for the BBC World Service production of William Trevor's play, 'Mr McNamara' which won the *Drama Production Award*.

The Award for *Dramatic Performance* was given jointly to Christine Lahti for her powerful performance

in 'Three Hotels', BBC World Service and L.A. Theatre Works. Lahti's central monologue was recorded in one take and "rarely" commented the writer afterwards, "have I seen a technical crew so moved."

Bernard Hepton, the other joint recipient, played Elgar in "a wonderfully varied and moving performance which portrayed Elgar as a sharp-tongued, angry old man at the end of his life." The play, 'Elgar's Third', for BBC Radio 3, also won the award for *Original Drama*.

The *Sony Special Award* went to Peter Baldwin, CBE who had presided over the dramatic changes in independent radio over the last sixteen years. First as Deputy, then Director of Radio at the IBA and, since 1991, as Chief Executive of the Radio Authority.

The final award, the 1995 *Gold Award*, was made to Alistair Cooke, who in the worlds of journalism and broadcasting defies superlatives. He made his first broadcasts for the BBC as a film critic in 1934 and began presenting 'Letter From America' in 1946. It was meant to run as a 13 part series in 1946 but has now developed into the longest-running one man series in the history of broadcasting. And, for over fifty years Cooke's mellow-toned reports about contemporary America have been presented with shrewd insight which have never failed to leave the listener better informed about some aspect of his adopted homeland.

The 1995 Sony Radio Awards ended on a suitably high note with Alistair Cooke's warmly welcomed Award. The 1996 Awards, to be presented on 30th April at London's Grosvenor House, will once again feature the best, most innovative and most exciting radio in Britain. ▲

DAB - the dawn of a new Radio Age

Radio is now 100 years old, a century since Marconi first demonstrated radiotelephony at his home in Italy. Fitting perhaps then that Autumn 1995 marked the beginning of what is already being called radio's new era. On 27th September, BBC Radio officially marked the switch-on of the first five transmitters broadcasting Digital radio signals, using the European developed broadcasting system known as Digital Audio Broadcasting - DAB.

The DAB specification has been devised by a consortium of European broadcasters, including the BBC, and consumer electronic companies, collectively known as the Eureka 147 Project.

Current radio broadcasts on AM provide only low quality mono sound, and are subject to fading and distortion. FM, although providing high quality stereo sound, is very prone to interference, especially in a car or on portables, and requires many different frequencies to cover a country with one station. This means that when driven from one area to another, an FM radio needs to be re-tuned, and the need for many frequencies is very inefficient, restricting the number of stations that can be broadcast.

The DAB signal is very different - a single 'block' of frequencies, known either as a 'multiplex' or an 'ensemble' is used across the country to carry not just one service, but several packaged together. The UK Government has allocated frequency spectrum between 217.5 MHz - 230.0 MHz, sufficient for seven multiplexes, which will be used for BBC and Independent National and Local Radio. Each transmitter for each multiplex uses the same frequency across the country, eliminating the need for any re-tuning.

Each multiplex comprises 2,300,000 bits, used to carry a mixture of stereo and mono broadcasts and data services, and to 'supervise' the transmission system itself. The more 'bits' allocated to a service, the higher its quality, the

Mark Saunders, BBC Radio's manager for DAB and RDS explains what's happening.

fewer 'bits', the lower the quality, but the greater the number of services that can be carried. One broadcaster may choose to transmit perhaps five stereo music channels, another may use his multiplex for twelve mono speech services.

BBC Radio will be using its National Multiplex to provide Radio 1, 2, 3 & 4 in high quality stereo, Radio 5 Live in high quality mono, which still leaves some bits 'spare'. Although the quality of all the BBC Network Radio services normally will be very high, these 'spare' bits may be used to increase still further the broadcast quality of an exceptional concert or drama production. Alternatively, these 'spare' bits may be used to provide additional services - for example, extra coverage of a special sporting event, or key news item.

Additional services need not be there all the time, they can come and go as required. The flexibility of adjusting the bit rate allows extra services to be added without depriving listeners of their regular programmes. So in addition to BBC Radio's core Radio Networks, the initial multiplex will include programmes from the World Service, live coverage of proceedings from Parliament and extra sports commentaries. "BBC Now" is another service which will be launched on the multiplex in mid 1996 offering an instant information service on demand; news, sport, weather and traffic continually updated throughout the day.

Apart from the attractions of extra services, the special thing about DAB is its robustness. It allows radio programmes to be received in high quality, reliably, consistently, and free from interference regardless of whether DAB is being received on a hi-fi tuner, in the car, on a portable, or on a personal stereo. It is in fact, the only broadcast system ever designed for reception by mobile receivers. The key to providing this robustness is that the signals are transmitted with both frequency and time

diversity. Conventional AM/FM broadcasts employ a single 'carrier' frequency (for example Radio 1 from Wrotham transmitter is 98.8MHz) around which the signal is modulated. An unwanted signal reflection, from say the side of a building, can effectively cancel out 98.8 MHz at a particular location, affecting reception. The DAB signal is carried on 1,536 different, closely-spaced carrier frequencies, so that even if some frequencies are affected by interference, they won't all be at once. Component parts of the programmes are 'spread' across all carriers, and also across a short period of time. The result of this technique, known as Coded Orthogonal Frequency Division Multiplex (COFDM), is totally reliable reception.

Being a Digital system, DAB lends itself to transmitting data, as well as audio. These data can supplement the programme, providing coding to allow listening selection by type or 'genre' - Programme Type; or text details of the programme presenter, guest, music title - Programme Dynamic Label. In the BBC's implementation, these features will initially be supported by 'borrowing' information from DAB's older brother, the Radio Data System, RDS, which has equivalent, if less extensive data features. As the implementation develops over the coming months, radio programmes may be supported with additional data - perhaps even still pictures, maps or graphics, displayed on a new generation of radios with screens for at-home use.

Of course, the extent to which radio moves from being a provider of audio only, to a 'multi-media' medium, (ultimately linking the radio with computers, printers, personal organisers, and with in-car navigation systems,) depends on three factors. These are; the willingness and ability of the broadcaster to offer a service; the development of suitable receivers; and audience demand.

Key to the acceptance of DAB will be the partnership between the broadcaster and the receiver industry in the development of sets with features the customer wants - especially the production of products that are easy to use.

Before embarking on our initial DAB service, the BBC conducted market research with 'focus groups' of both technically aware and 'normal' listeners, into their views on our proposals. These drew an enthusiastic response for our plans for DAB, and throughout the early years of the new service, listeners will continue to be consulted as we experiment and develop.

Like all new technologies, - CD and Video recorders for example - early DAB receivers when they first become generally available, probably in 1997, will be more expensive than FM/AM radios, but as the products develop and begin to be produced in quantity, prices will fall. The major European and Japanese manufacturers are all developing receivers, initially for use in cars, and as hi-fi units, and later also for portable, and personal use.

In the tradition of new developments in broadcasting, there is always the inevitable question of which comes first, the broadcasts, or the receivers. The BBC's decision to switch on its Digital Radio service in September 1995, with Government encouragement, is in keeping with the Corporation's role as a pioneering public service broadcaster, and providing a testing ground for the industry to develop this new technology. The first five transmitters covering Greater London bring DAB to almost 20% of the population instantly, and by March 1998, a further 22 transmitters will have brought the benefits of DAB to 60% of the population, and the major motorway and trunk road network.

Of course, the introduction of DAB doesn't affect the existing services on FM & AM. Conventional broadcasting will still continue for many years, probably at least 20, so there's no need to think that the new radio you bought last week, or comes with your new car will stop working, it won't. In a few years however, it will be worth ensuring that a new purchase includes a DAB tuner, so that the benefits of the system can start to be realised.

DAB, the dawn of a new Radio Age is just beginning. ▲

From long wires to active antenna - how to improve your radio's reception

Steve Irwin

Radio has changed significantly over recent years. Sophisticated sets are available at affordable prices, many of them with digital tuning and much greater coverage in terms of frequency and wave bands.

Whatever type of radio you own, you can do much to improve reception and gain access to even more radio stations.

The antenna (or aerial) is the most important part of any receiving system. Most good quality radio sets and high fidelity systems provide facilities for the connection of an external VHF/FM aerial (and in some cases provision for an AM aerial). To obtain the best results from your equipment you should seriously consider installing one.

FM reception

With the expansion of the VHF/FM wave band, an increasing number of stations are broadcasting from a number of different locations. Most broadcasters transmit their signals with vertical or mixed polarization. This provides an improvement in reception for portable and car radios. It's therefore usually better to install a vertical aligned (rather than horizontally aligned) aerial, unless local conditions demand otherwise.

A single dipole aerial will perform well in good reception areas, and if installed outdoors in a vertical plane it will provide omni-directional reception.

With careful installation it is even possible to gain some directional properties. Problems such as co-channel interference may be reduced and sometimes eliminated, by using the mast and building to help screen the aerial from offending

signals, assuming they are not in the same direction.

VHF/FM signals can vary considerably over quite short distances; moving the aerial a few feet can make all the difference.

In difficult reception areas a more elaborate installation such as a multi-element type or Yagi antenna may be required. Generally the greater the number of elements, the higher the gain and the more directional and the better the signal will be. This type of antenna can be very useful in areas which suffer from severe co-channel interference and or multi-path reception conditions.

Multi-path distortion is caused by reflected signals from hills or tall buildings interfering with the direct signal. This has the effect of causing the sound to appear rough or brittle. In some situations where problems of this nature exist, a horizontal aerial may improve matters, providing that the transmissions you are tuning to are horizontal, or of mixed polarization.

It is important to understand that any radio receiver is only as good as the signal it receives. Always select a good quality aerial from a reputable manufacturer and avoid the cheaper 'contractor' types. Firms such as Antiference, Fuba, Triax and Wolsey produce good quality aerials and are worth considering. Some are stocked by Maplin Electronics and Tandy stores.

AM reception

AM is certainly making a comeback, but unlike FM broadcasts, AM broadcasts which include the long wave, medium wave and short wave bands are much more likely to be troubled by electrical interference.

...from long wires to active antenna

Local broadcasts can also suffer greatly from continental interference, particularly after dark. This situation is the result of sky-wave signals reflected back to earth often from distant broadcasters operating on, or close to, the frequency of the station being listened to.

The most widely used receiving aerial for the reception of long and medium wave broadcasts is the radio's internal ferrite rod. This is usually very efficient and is difficult to improve upon. Modern radio sets are quite sensitive and require only a modest signal to achieve good results. A telescopic aerial is often used for short wave.

You can improve your AM reception with the addition of a simple outdoor aerial such as a long-wire aerial. Long-wires were often used years ago, when radio was the peak of home entertainment. This type of antenna is the best compromise for all band (MW, LW and SW) reception and when properly matched to the radio set, can provide good results.

The aerial consists of a length of wire, normally of about seventy five feet long, supported at each end with insulators and connecting cable.

In fact any length of wire can act as an aerial, providing you can match the end impedance of the wire with that required by the radio. Maximum transfer of radio frequency (RF) energy will however only take place providing there is a reasonable impedance match between antenna and radio receiver. (Impedance is the term used to measure the resistive/capacitive properties of radio frequency energy with respect to earth and is fundamental to the efficiency of an aerial system.)

This is however often difficult, because modern day radio sets generally require a low impedance input of fifty or seventy five ohms. A non-resonant long-wire antenna (an antenna that is not matched to a particular frequency) on the other hand may have impedance values ranging from a few ohms to many hundreds of ohms.

A length of wire suspended in free air space

will have a voltage on it by simple electro-magnetic induction. It's end impedance will vary when measured to earth, depending on the frequency. A matching device such as the 'Magnetic Balun' will be needed in most situations where a non-resonant wire antenna is used and signals are fed to the radio receiver via coaxial cable.

The Magnetic Balun is a compact, weather-proof matching unit which is specially suited to long-wire antennas. It consists of a transformer with magnetic field coupling. The impedance transformation ratio changes with frequency. Performance is best using 12 metres of wire or greater. Static protection is also provided.

It is very important to obtain the correct impedance match at the aerial, otherwise radio energy may be lost and performance can suffer.

Coaxial cable is a low loss conductor of RF energy, but only when it is terminated in something like its nominal impedance - usually 50 to 75 ohms. This is a very low value when compared to the characteristics of a non resonant antenna such as the end fed long-wire. It's therefore not recommended to directly connect such an antenna to coaxial cable, as severe signal loss will result.

If you want to feed the radio set directly from a non resonant aerial and the receiver's input is fifty ohms, signals can be optimised with a device called an antenna tuner unit (ATU).

This is a very useful device consisting of a tapped inductor (coil) and variable tuning capacitors. When adjusted correctly this can compensate for the impedance changes over a given band of frequencies. This provides the receiver's input with the correct impedance match of fifty ohms. Be sure to install a good earth at the radio set if this option is used.

However, if space is at a premium and you can't install a suitable passive antenna such as a long-wire, then an active aerial could well be your answer.

...from long wires to active antenna

The Active Aerial

An active antenna is an antenna that electronically amplifies signals. It usually consists of a short rod or wire, connected to an amplifier and a length of coaxial cable, with an interface unit and power supply. This may sound complicated but it is a very simple device to install and will normally produce good results.

The development of active antennas has improved significantly over recent years. Some of the earlier types were easily overloaded and generated spurious signals.

The AD 370 active antenna manufactured by Datong Electronics is an excellent antenna which performs very well indeed. The device comes complete with interface and power supply.

The aerial itself consists of two steel elements which form a dipole, and can be mounted using standard TV hardware. For general reception it should be installed with its elements vertically. Mounted high above the house it will provide some immunity from internal electrical interference.

The biggest problem for AM reception is usually the electricity supply. Interference also comes from thermostats, switches, motors, fluorescent lights, televisions and computers. Any poor electrical joint on the system can cause problems.

In rural areas conditions may be worse because in most cases domestic properties are connected to the electricity supply via overhead cables, without any earth. It is the responsibility

of the householder to provide the earth. Poor mains earthing can result in internal electrical interference being radiated from the outside mains cables adding to the overall interference.

It is very important when installing any external aerial to avoid electric cables and to make sure that the antenna and its support structure cannot come into contact with them. Install the antenna as high as possible, above and away from any cables.

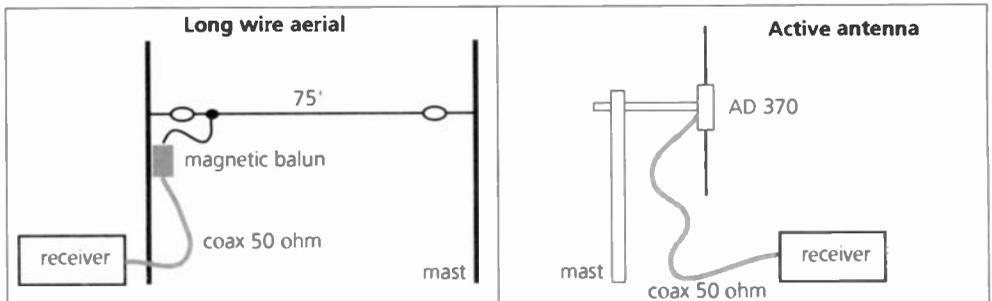
With a mains fed radio receiver the earth is important. Not just from a safety point of view, but with a passive antenna, the earth can be considered as part of the aerial system in terms of efficiency, and is essential for the reduction of static. Always ensure a separate earth as close to the receiver as possible.

Active Antennas which to choose

Datong's AD 370 active aerial costs about £80 and is probably the best all-round low cost antenna for outdoor use. Alternatively if preferred, an indoor version, the AD 270, is available. Both types cover 150 kHz-30 MHz with good performance.

Probably the best most versatile antenna tuner unit for use with passive antennas is the Global AT 1000. This type is very popular and is a good performer. Available from Waters and Stanton and Maplin Electronics.

I hope that this article will help you to better reception, and to more enjoyment from your radio. ▲



Pirate stations, RSLs and the free market

Geoff Baldwin

As I write this article, the most famous pirate station of them all, Radio Caroline, is broadcasting to the London area on FM legally for the very first time in its 31 year history.

The station that brought commercial radio to the UK back in the 1960's and completely changed the face of British radio (and the BBC) forever, has obtained a 28 day Restricted Service Licence (RSL) from the Radio Authority to broadcast on 87.7 Mhz FM. Transmissions began on the 6th October and are due to finish on the 2nd November. These broadcasts have been picked up over a large area of North and East London and, also well beyond by enthusiasts, even though the transmitting power is very low.

A number of former Radio Caroline D.J.'s from the Sixties, including Johnnie Walker, Mike Ahern and Tom Lodge have volunteered their services and have been heard doing programmes from the radio-ship *Ross Revenge* which is tied up in South Quay in Docklands for the duration of the broadcasts. Prior to the start of the broadcasts, Johnnie Walker joined the ship for the part of the journey up the Thames. This was thought to be in recollection of his famous monologue "Man's fight for Freedom" which was aired on the station back in 1967 when the station was originally outlawed by the Marine Broadcasting Offences Act. This envisaged the old Caroline ship, *Mi Amigo*, sailing up the Thames and broadcasting freely and legally.

During the Summer, the station achieved another first by broadcasting, legally, two miles off the Clacton coast not that far from the Frinton-on-Sea location where the *Mi Amigo*

was anchored back in the offshore radio heydays of the Sixties. These broadcasts were also made with a 28 day RSL granted by the Radio Authority. The transmissions were on low power on 1503 KHz (which was the equivalent of the original frequency of 199M). The broadcasts were timed to take in the anniversaries of the raid on the ship on 19th August 1989 (by Dutch Government officials and officials of the British Department of Trade and Industry) and the original outlawing of the station on 14th August 1967 (by the Marine Offences Act). Johnnie Walker, also returned to do a broadcast to commemorate the latter and to revive the unorthodox means of communicating with car owning listeners, known as 'Frinton Flashing'. However by the time that you read this article, Radio Caroline is unlikely to be on the air and the long term future of the station is still in doubt.

Another group (unconnected with the group that operate the *Ross Revenge*), have plans to operate their own station, *Celtic Rose Radio*, legally and on high power, on AM from the Isle of Man. At the time of writing it is not clear whether these plans will go ahead.

Radio Caroline is remembered as a station that broadcast for many years on high power without a licence from any Government or Government agency. The only way that it can now operate is on low power, for 28 days at a time and with the approval of two Government agencies. This seems to be an appropriate time to look at the current regulations regarding current licencing procedures.

Twenty eight years after the offshore radio stations were all but silenced, we still don't have full deregulation of radio in the UK and

...pirate stations, RSLs and the free market

for most would-be broadcasters, the reality of licencing is a licence for 28 days or nothing. Some groups have been licenced on this basis, hoping to gain more permanent licences to broadcast to their local communities, as and when the Radio Authority decide to grant such a licence. However, this seems to be a long and laborious process.

The current system operated by the Radio Authority has brought many more commercial stations on air than under the previous tightly controlled system operated by the Independent Broadcasting Authority. It has enabled many long overdue changes to be made, but it seems inevitable to me, that the current semi-deregulated system will break down within the next five to ten years, as the radio industry grows ever larger, and the requirements of potential broadcasters grow ever more diverse. Full deregulation will have to come sooner rather than later, and should lead to a genuine free market in the early part of the next century.

Currently RSLs have become a means for many people to get on the air legally - albeit only for a limited period. Some groups might previously have gone on-air illegally as pirate stations and indeed East London Radio, for example, was a pirate station in the Seventies. It has recently used the RSL route, to stake its claim to become a local community radio station.

However, as already stated, all legally operating commercial radio stations are regulated by the Radio Authority which is one of many quangos set up by the Government to oversee the operation of particular industries. It is not accountable to the public in any way whatsoever and meets in secret to decide the fate of radio stations and applicants for licences. Its most notorious decision to-date, was the decision to revoke the licence of the former London speech-based station LBC, which was the first ever ILR station to go on air.

This station had some of the most loyal and supportive listeners of any of the ILR stations

and its demise is still being felt to this day. Its successor, London News, is not so popular with listeners and its future has recently appeared to be in some doubt.

Supporters of free competition would argue that stations like Radio Caroline should be allowed on the air, to compete with the likes of Virgin FM and Heart FM. Let the audience decide which station they prefer to listen to. However, the attitude of the RA has been "to extend listener choice" by licencing different types of specialist radio stations. This means that different interests are served but that you don't get any real choice if you like, for example, classic Rock music. You have to accept exactly what is offered to you. You can't retune to the radio station down the band!

Many people (including some in the radio industry) have begun to realise that the situation is getting worse. Although we have more legally licenced radio stations on air than ever before, the actual choice to the listener is diminishing. This is happening for three main reasons. First, the independent radio industry is being gradually taken over by about five or six large radio and media groups. These have recently been allowed by the Government to extend their ownership of stations from 20 to 35. This means that, in theory, the big groups could swallow up all the existing stations by takeover.

Second, it has become apparent that virtually all independent stations are now formatted by computer programme, an idea imported from America. If you think that you are hearing the same old tracks over and over again, it is because you are! Readers of my publication, *Radio Review*, have reported that by retuning their radios from one local ILR station to another, they have heard the same tracks, played in the same order, a few minutes later! That's choice for you!

Radio in the UK is now being packaged like a chain of supermarkets would package its food. In the case of radio the larger groups offer you the same limited range of records throughout

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their chain of radio stations. Perhaps I'm being unfair to supermarket chains - at least they offer a vast range of food and choice in their stores!

In radio's case there is a vast library of records to choose from. However, most of the 'branded' radio stations stick to playing just the few hundred that have made it on to their computer playlist. This phenomenon is not just confined to local stations. If you listen to Virgin, listen out for 'Sweet Child' by Guns 'n' Roses. This appears to be Virgin's token gesture to the Rock fan and is played over and over again!

The third element in this situation is, of course, the way independent radio continues to be regulated. This brings us back to the Radio Authority and the issuing of licences.

Although it is now possible for small operators to get on the air with Restricted Service Licences, they are, indeed, restricted - and far too restricted in my opinion. There seems no good reason why some of these stations should not be given the chance to broadcast for longer on a trial basis; say for three months, six months or even a year. This would give them a reasonable chance to gain experience and generate a financial return. For example, a good case could have been made for Radio Caroline to broadcast for three months through the Summer, off the Essex coast.

Dependent on the circumstances there should also be more flexibility concerning the transmitting power. With Radio Caroline for

example, a lot of people beyond the immediate area in which Caroline's broadcasts could be heard were also interested in hearing the station.

However, although such changes might be obvious to you or me, the very idea of such freedom and flexibility is alien to Government appointed quangos like the RA!

The one thing that is certain is that things are going to have to change. If the big boys do form into groups, which fail to give real listener choice, then the playing field should be opened up to the smaller newcomers, to challenge them and force a shake-up. In the next ten years or so, radio should be given its head, allowing a genuine free market to emerge.

What impact the newer technology such as satellite radio and DAB will have, in the future, has yet to become entirely clear.

The death of AM broadcasting has been predicted for some time. If most existing services leave AM for something technically superior, then there would appear to be no reason why stations that might have been regarded as pirates in the past, should not be allowed to set up freely on AM. They should be allowed to attract an audience and advertisers if they can. ▲

RADIO REVIEW

Is a regular newsletter (published every 10-15 days) bringing you all the news about Radio Caroline, UK Radio, Dutch Radio, Satellite Broadcasting, Irish Radio, Pirate stations and more!

For a sample copy send five loose 25p stamps and a SAE to Dept RLG, PO Box 46, Romford Essex RM1 2QE

Radio Caroline, London, North Sea, Laser, Mi Amigo, Veronica etc. For a free list of our records, cassettes, videos, books, magazines, posters etc send a SAE to the above address.

Digital audio radio

...direct to your radio from satellite

John Ross-Barnard

There now follows an acronym warning. The Acronymological office issued the following warning at 10 hours GMT, today, 26th September 1995.

QEFM = Quality Europe FM, a radio station.

HEO = Highly elliptical (or eccentric) orbit.

GEO = Geostationary orbit.

TDAB = Terrestrial Digital Audio Broadcasting.

DABS = Digital Audio Broadcasting by, with or from satellite.

Once upon a time, and not so very long ago, there was a radio station called QEFM. It broadcast well-programmed middle of the road music on an Astra subcarrier, but so few people listened to it, that eventually, even the advertisers stopped listening. 'Twas a sad tale of forgotten dreams.

But it boasted a salesman who firmly believed that direct to tranny satellite services would be launched shortly. QEFM intended to be the first to sign up for a channel if not a whole transponder offering a range of services. Well he was right about one thing - direct to home satellite radio is about to be launched. But "about" is a relative word. When I say "about" I mean the year 2000 at the earliest.

In Hilversum last week Radio Nederland collected together the best brains from Europe's great engineering think-and-do tank, the European Space Agency. They also invited a few of the technical leading lights in broadcasting to do a Barnes Wallis.

Yes folks, a direct to home digital audio broadcast satellite system of six satellites is

planned. HEOs - not GEOs - will bounce signals across Canada, Western Europe, Korea, Japan, E. China and Taiwan in a highly elliptical (eccentric) orbit. There is just one small problem. The ESA needs to raise \$999,000,000.99. Say it quickly and blink. Well it is less than a billion. A mere bagatelle.

But these chaps are serious. They are the best engineering brains that Europe can muster. In satellite terms they are rocket scientists. They have a superb track record. They have created, built and launched the odd dozen or so satellites serving broadcasters, the military and even one which can detect when truck drivers, carrying high value loads, stop on the motorway for a pee. These men - and one woman from Touche Ross - are serious players.

It is difficult to identify precisely what the listeners will hear on DABS but it seems that each satellite will broadcast Canadian programmes over Canada, European programmes over Europe and Korean programmes over Korea and so on - logical huh? Each satellite will change the programming it delivers just as it leaves that territory and immediately start broadcasting material suitable for the countries it has arrived at. With six satellites, all orbiting continuously, transmission changes will be seamless and the listeners will not know that they have been passed on from one satellite to another without so much as a digital drop-out. Now that is what I call "hot-switching!"

Each DAB satellite will broadcast five beams. In the European case, one will cover the

...digital audio radio - direct by satellite

whole of Europe providing pan-European services. The others will broadcast to Britain, France, Germany, Scandinavia, Spain etc., offering the elegance of specific language channels to specific territories.

The channels can be configured into six stereo pairs or five stereos and two monos or - with a bit of engineering cleverness - 18 monos. Or you can perm any combination of the above. At least that is the theory. In practice whichever country pays the most money is likely to get the most channels. It's all about access my flexible friends.

From my perspective it is a recipe for one of the most disputatious Euro-puddings ever to hit radio broadcasters. But the engineers, being engineers, have not bothered themselves with the politics that are to come. Politics and disputation are the province of managers and accounts.

One or the refreshing things about broadcasting is that, provided you only have engineers in the "people-mix" you have tranquillity. Radio and TV engineers are, with certain exceptions, charming and uncompetitive chaps. They are put on this earth to invent solutions to problems that we didn't think we had. Managers on the other hand come and go.

Engineers are, if not a thing of beauty, a thing of stability and permanence. They wear corduroy trousers and smoke a pipe; drink real coffee and study underwater data signalling; shoot squirrels and keep boats; buy furniture from Ikea and are apiarists. Altogether delightful people who are so unselfish in their work that they are astonished when they create their own redundancy with their own brilliance.

Such was the case in Brussels last week. Engineers were busy devising extensive schemes which would put terrestrial transmitter engineers out of work and relieve us of the curse of BT, Energis, NTL, Cable Companies and their ilk. Never again would our streets be dug

up, pylons prance across the countryside, or any of those other practices that the common carriers of the world impose upon us. No, Digital Audio Broadcasting was a cure for all ills. Or was it? Well ...erm ... not exactly.

DABS, it seems, drops out (i.e. stops working) if a building or large tree gets in the way. What you actually need, is a combination of DABS and TDAB, with its very low power terrestrial transmitters infilling signals where necessary. Oh well come back BT/NTL etc., all is forgiven.

Okay, so we can overcome that minor difficulty - who is going to put up the money? QEFM, Capital Radio, GWR, BBC Local Radio Bloxwich? Will there be a host of golden daffodils or even Golden Roses queuing up to grab a slice of transponder pudding? Well it seems not, DABS is just too big for local radio and surprisingly may even be too big for national radio - or at least commercial national radio.

Powerful governments who like to colonise the airwaves with propaganda (not our government of course who are funding a worldwide public service) usually have the odd \$999,000,000.99 in reserve, just in case there's a war to be fought. So BBC, NHK, VOA, Radio Nederland, Deutsche Welle etc stand by your Foreign office cheque books

What will be on these high power satellites that will irradiate on egg from a distance of 20,000 kilometres? My best guess is that it will replace shortwave radio. The building and maintenance of shortwave transmitters on foreign soils is wrought with political difficulty, is hugely expensive and easily jammed.

So keep your ears open - Digital Audio Broadcasting direct by satellite, could be on its way to a radio near you! ▲

Serious students of radio may like to contact the author by email.
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Competition and the changing face of broadcasting

Jocelyn Hay

In September 1995 the BBC began its first broadcasts of digital radio, or Digital Audio Broadcasting (DAB) as it is called. When the new technology takes off it could increase the number of channels by ten or even a hundred fold.

There are now more and more stations to listen to, but as competition gets keener, two tendencies are appearing. First the newcomers find it more difficult to be noticed and they try to grab attention by doing outrageous things. Talk Radio with its shock jocks tried this but it did not deliver audiences so now it is using more traditional ways, using familiar voices to bring in the punters.

The second noticeable trend is that as the going gets tougher programme controllers try to be all things to all men (and women). It is like politics, everyone's claiming the middle ground. The result I believe, is less distinctive programming, especially of a truly local character. More and more stations are tending to sound the same.

The one truly successful story is still Classic FM which, having reached financial profitability, should go from strength to strength. The only fly in its ointment is that if the Government does not change the crazy provisions of the 1990 Broadcasting Act, Classic will have to enter a blind auction for its licence in five years time. Anyone who outbids Classic FM by as little as £5, could take over its licence. VLV is one of many fighting to get the government to change its mind.

But what about the BBC in this competitive climate? The VLV awaits the government plans for the BBC with some concern. One of the last acts of Stephen Dorrell, before he moved from National Heritage to Health, was to reiterate the Government's view that unless the BBC kept up its share of the audience the Government could not justify the imposition of a universal licence. He repeated the statement in the 1994 White Paper on the future of the BBC that while the Government intends to renew the BBC Charter for the next ten years, it only guarantees the licence fee for five - until 2001. But without the licence fee (25% of which goes to BBC Radio) how will BBC Radio be funded?

It has been a mixed year for BBC Radio. Radio 1 has seen a welcome return of more than half a million listeners. Radio 2 has continued to thrive under the understanding hand of its Controller Frances Line. Lets hope its new

Controller, James Moir, formerly in charge of BBC Light Entertainment, does as well.

Radio 4 has courted less controversy in 1995 but many thousands dislike the 'Afternoon Shift' almost as much as the hated 'Anderson's Country' and many others deplore the loss of Radio 4 Long Wave to ball by ball cricket for so many days in the year.

Radio Five Live has had an especially successful year, increasing its audience greatly, but I question whether it was necessary to be quite so brutal in dropping all its children's programmes.

Radio 3 has gathered most criticism this year. Nicholas Kenyon was brought in to raise its audience but, in true BBC fashion, he appears not to understand that radio listeners tune in because they like the programmes and the presenters the way they are. Change affronts them and must be gentle. And this applies as much to Radio 1 as it does to 3 and 4. If they do not like the changes they switch off. And it is exceedingly difficult to get them back. Kenyon has made radical and unpopular change and managed to keep its audience static. Perhaps that's a success considering the strength of the opposition from Classic FM.

BBC Local Radio is also feeling the pinch as it faces massive competition. In some areas it has eight or nine competitors on its patch. All credit therefore to the BBC for holding its own so well. Long may it continue to do so because unless the BBC is there to provide a quality news service, and a yardstick of programme standards across the board, standards will fall and choice will be reduced.

VLV believes that BBC Radio plays a unique and irreplaceable role in British national and community life. Without it we will all be the poorer, culturally, socially and democratically. If you care about the quality of British radio - and television - join Voice of the Listener and Viewer (VLV) and make your voice heard. ▲

VLV produces a quarterly newsletter, free to members. It holds public conferences, lectures and meetings in London and throughout the country at prices anyone can afford. Membership costs £10 annually, £7.50 concessionary. For more information contact Ann Liek on 01474-353835 or at the VLV office, 101 Kings Drive, Gravesend, Kent DA12 5BQ.

Radio Data System - RDS

RDS is well established in the United Kingdom, throughout most of the rest of Europe, and beyond.

All BBC National and Local Radio provide the basic services to aid station selection and tuning. As car radio handbooks are notoriously poorly written, the following guide to the RDS features used on car radios may be helpful:

- PS** Programme Service Name - display of station name, rather than its frequency
- PI** Programme Identification - unique electronic station code, used by the receiver in conjunction with AF, to provide fully automatic tuning to the best signal available for your listening choice.
- AF** Alternative Frequencies - a list of frequencies used by a station in neighbouring transmitter areas to enable the automatic tuning process.
- CT** Clock Time - Provides an accurate clock, self-adjusting for Winter/Summer Time, and across national borders.

TP/TA Travel service - used by the receiver to identify stations providing travel news, and when used in conjunction with EON, allow listening to BBC National stations to be interrupted with Travel reports for the area from BBC Local stations.

EON Enhanced Other Networks - Cross-reference to other stations for the Travel Service, and other features.

PTY Programme Type - Allows choice of listening by type or 'genre' rather than by station.

Not all RDS radios decode all these features, it is particularly important to ensure that if considering purchasing an RDS radio, that it includes the EON feature, or else the Travel Service will not work fully.

Most Independent Radio stations also use RDS. On those that offer the Travel Service, listening to in-car cassette or CD will be interrupted by travel news, but receivers will not switch across from one station to another.

Mark Saunders, manager DAB and RDS BBC Radio

common abbreviations

We have been known to slip in the occasional abbreviation without so much as an explanation!

This year we have made efforts to explain abbreviations as we go along - but have included the following list to guard against the inevitable slips! We've not included any RDS abbreviations as they are all explained above.

AM	Used to describe the medium, long and short wave bands.	MHz	A unit to measure where a station is on the dial.
DAB	Digital Audio Broadcasting.	MW	Medium wave
DX'er	A listener who likes tuning to distant stations.	POL	Polarization (h = horizontal; v = vertical)
EMRP	Effective mean (average) radiated power (ie of a transmitter).	RA	Radio Authority
ERP	Effective radiated power (ie of a transmitter).	RDS	Radio Data System
FM	Used to describe the VHF wave band.	RLG	Radio Listeners' Guide
GMT	Greenwich Mean Time	RSL	Restricted service licence
ILR	Independent local radio	RTE	Radio Telefis Eireann (Irish state broadcaster).
kHz	A unit to measure where a station is on the dial.	RTL	Radio Télé Luxembourg (Luxembourg state broadcaster).
kW	Kilowatt(s) a measure of a transmitter's power.	SW	Short wave
LW	Long wave	UTC	Coordinated universal time - also known as Greenwich Mean Time (GMT).
		VOA	Voice of America

BBC FM radio in England

To find a station, first use the map to locate the nearest main transmitter. These are printed in bold and listed alphabetically. Tune your radio to the relevant frequency. If the reception is poor, either retune to a nearby relay station (also listed alphabetically), or to another main station. **(All Frequencies in MHz)**

Transmitter	Radio	Radio	Radio	Radio	POL	Power max ERP kW
	1	2	3	4		
Belmont	98.3	88.8	90.9	93.1	M	16.000
Chatton	99.7*	90.1	92.3	94.5	M	5.600
Holme Moss	98.9	89.3	91.5	93.7	M	250.000
Les Platons (Channel Islands)	97.1	89.6	91.1	94.8	M	16.000
Manningtree	97.7	88.1	90.3	92.5	M	5.000
North Hessary Tor	97.7	88.1	90.3	92.5	M	160.000
Oxford	99.1	89.5	91.7	93.9	M	46.000
Peterborough	99.7	90.1	92.3	94.5	M	40.000
Pontop Pike	98.1	88.5	90.7	92.9	M	134.000
Redruth	99.3	89.7	91.9	94.1	M	25.000
Ridge Hill	98.2	88.6	90.8	93.0	M	10.000
Rowridge	98.2	88.5	90.7	92.9	M	250.000
Sandale (also Scotland)	97.7	88.1	90.3	92.5	M	250.000
Sutton Coldfield	97.9	88.3	90.5	92.7	M	250.000
Swingate	99.5	90.0	92.4	94.4	M	11.000
Tacolneston	99.3	89.7	91.9	94.1	M	250.000
Wenvoe (also Wales)	99.5	89.9	92.1	94.3	M	250.000
Winter Hill	98.2	88.6	90.8	93.0	M	4.000
Wrotham	-	89.1	91.3	93.5	M	250.000
	98.8	-	-	-	M	125.000
Axe Valley	99.1	89.5	91.7	93.9	V	0.080
Barnoldswick	99.3	89.7	91.9	94.1	V	0.020
Barnstaple	98.1	88.5	90.7	92.9	M	1.000
Basingstoke	99.7	90.1	92.3	94.5	V	0.200
Bath	98.6	89.0	91.2	93.4	M	0.082
Beacon Hill*	98.4	88.7	90.9	93.1	V	1.000
Beecroft Hill	99.4	89.8	92.0	94.2	V	0.200
Berwick-upon-Tweed	98.2	88.6	90.8	93.0	V	0.050
Bexhill	99.2	88.2	92.2	94.6	V	0.100
Blunsdon	98.6	89.0	91.2	93.4	V	0.200
Bow Brickhill	98.2	88.6	90.8	93.0	M	10.000
Bridport	98.7	89.1	91.3	93.5	V	0.200
Brighton (Whitehawk Hill)	99.7	90.1	92.3	94.5	M	0.600
Buxton	99.6	90.0	92.2	94.4	M	0.100
Calne	97.8	88.2	90.4	92.6	V	0.032
Cambridge (Madingley)	98.5	88.9	91.1	93.3	M	0.260
Caterham	99.3	89.7	91.9	94.1	V	0.015
Chalford	98.8	89.2	91.4	93.6	V	0.100
Chard	98.5	88.9	91.1	93.3	V	0.033
Chesterfield	98.6	89.0	91.2	93.4	V	0.400
Chippenham	98.4	88.8	91.0	93.2	V	0.010
Churchdown Hill	98.6	89.0	91.2	93.4	M	0.072
Cirencester Town	97.7	88.1	90.3	92.5	V	0.010
Combe Martin	98.7	89.1	91.3	93.5	V	0.004
Cornholme	99.3	89.7	91.9	94.1	V	0.020
Crystal Palace	98.5	88.8	91.0	93.2	V	4.000
Darwen	99.1	89.5	91.7	93.9	V	0.010
Douglas (Isle of Man)	98.0	88.4	90.6	92.8	M	11.000
Egford Hill (Frome)	98.7	89.1	91.3	93.5	V	0.060
Fenham	99.4	89.8	92.0	94.2	V	0.042
Folkestone	98.3	88.4	90.6	93.1	V	0.100
Grantham	97.7	88.1	90.3	92.5	V	0.050

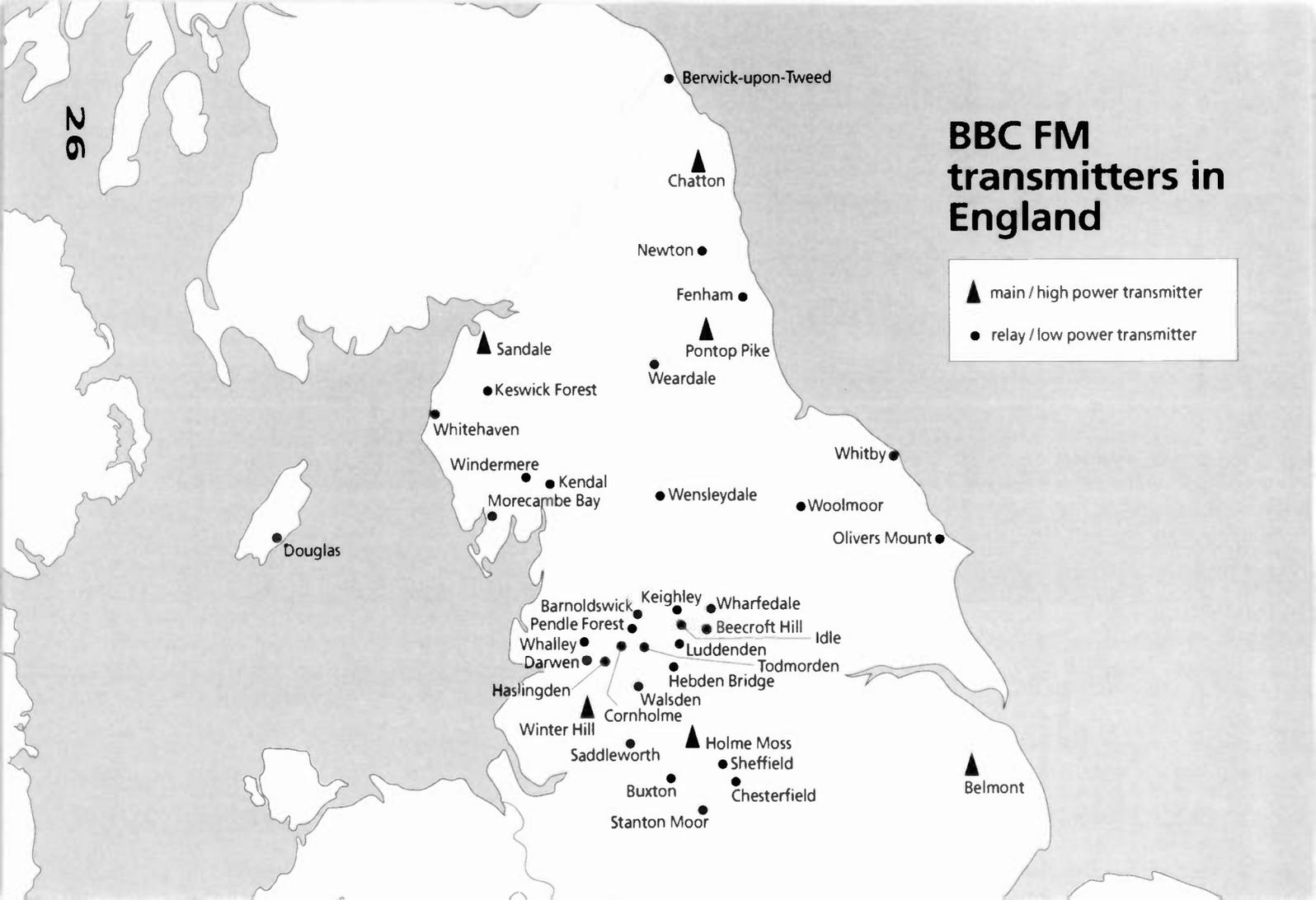
BBC FM radio in England

Transmitter	Radio 1	Radio 2	Radio 3	Radio 4	POL	Power max ERP kW
Guildford	97.7	88.1	90.3	92.5	M	3.000
Haslingden	99.5	89.9	92.1	94.3	V	0.083
Hastings	97.7	89.6	91.8	94.2	M	0.500
Hebden Bridge	98.0	88.4	90.6	92.8	V	0.025
Hemdean (Reading)	99.4	89.8	92.0	94.2	V	1.000
High Wycombe	99.6	90.0	92.2	94.4	M	0.050
Hutton	99.0	89.4	91.6	93.8	V	0.040
Idle	98.1	88.5	90.7	92.9	V	0.025
Ilchester Crescent	98.9	89.3	91.5	93.7	M	1.300
Isles of Scilly	98.4	88.8	91.0	93.2	M	0.060
Ivybridge	99.5	89.9	92.1	94.3	V	0.050
Keighley	98.5	88.9	91.1	93.3	V	1.000
Kendal	98.6	89.0	91.2	93.4	M	0.100
Kenley	98.0	88.4	90.6	92.8	V	0.025
Keswick Forest*	99.2	89.6	91.8	94.0	H	0.030
Kingswear*	99.4	89.8	92.0	94.2	V	0.005
Luddenden	98.3	88.7	90.9	93.1	V	0.084
Ludlow	99.2	89.6	91.8	94.0	M	0.010
Lyme Regis*	99.3	89.7	91.9	94.1	V	0.050
Marlborough	99.7	90.1	92.3	94.5	V	0.100
Mickleham	99.3	89.7	91.9	94.1	V	0.025
Minehead*	98.6	89.0	91.2	93.4	V	0.010
Morecambe Bay	99.6	90.0	92.2	94.4	M	10.000
Nailsworth	97.8	88.2	90.4	92.6	V	0.100
Newbury*	97.8	88.2	90.4	92.6	V	0.100
Newhaven	99.3	89.7	91.9	94.1	M	0.100
Newton	99.0	89.4	91.6	93.8	V	0.100
Northampton	98.5	88.9	91.1	93.3	M	0.123
Okehampton	98.3	88.7	90.9	93.1	M	0.070
Oliver's Mount	99.5	89.9	92.1	94.3	M	0.250
Penaligon Downs	98.4	88.8	91.0	93.2	V	0.200
Pendle Forest	97.8	90.2	92.6	94.6	M	1.000
Plympton	98.1	88.5	90.7	92.9	V	0.040
Saddleworth	99.3	89.8	91.9	94.1	V	0.095
Salcombe*	99.1	89.5	91.7	93.9	V	0.250
Salisbury	99.4	89.8	92.0	94.2	V	0.020
Sheffield	99.5	89.9	92.1	94.3	M	0.320
St Thomas (Exeter)	98.6	89.0	91.2	93.4	M	0.055
Stanton Moor	99.4	89.8	92.0	94.2	M	1.200
Todmorden	98.5	88.9	91.1	93.3	V	0.100
Upperton*	98.1	88.6	90.8	92.8	V	0.500
Ventnor	99.0	89.4	91.7	93.8	H	0.020
Walsden South	98.0	88.4	90.6	92.8	V	0.010
Weardale	99.3	89.7	91.9	94.1	M	0.180
Wensleydale	97.9	88.3	90.5	92.7	H	0.027
Westwood	97.9	88.3	90.5	92.7	V	0.050
Weymouth	99.6	90.0	92.2	94.4	V	0.130
Whalley*	99.2	89.6	91.8	94.0	V	0.010
Wharfedale	98.0	88.4	90.6	92.8	M	0.040
Whitby	99.2	89.6	91.8	94.0	M	0.100
Whitehaven	99.3	89.7	91.9	94.1	V	0.100
Windermere	97.9	88.3	90.5	92.7	M	0.064
Woolmoor	99.6	90.2	92.2	94.4	V	5.000

* transmitters or frequencies marked with an asterisk (*) are proposed, but are not yet in service

BBC FM transmitters in England

- ▲ main / high power transmitter
- relay / low power transmitter



BBC FM radio in Scotland

To find a station, first use the map to locate the nearest main transmitter. These are printed in bold and listed alphabetically. Tune your radio to the relevant frequency. If the reception is poor, either retune to a nearby relay station (also listed alphabetically), or to another main station. **(All Frequencies in MHz)**

Transmitter	Radio 1	Radio 2	Radio 3	Radio 4	Radio scotland	Radio Nan Gaidheal	Pol	Power kW max ERP
Ashkirk	98.7	89.1	91.3	103.9	93.5t	-	M	50.000
Black Hill	99.5	89.9	92.1	95.8	94.3	-	M	250.000
Bressay (Shetlands)	97.9	88.3	90.5	94.9	92.7aoz	-	M	43.000
Darvel	99.1	89.5	91.7	104.3	93.9	-	M	10.000
Eitshal	99.4	89.8	92.0	95.1	94.2h	104.3	V	2.000
Forfar	97.9	88.3	90.5	94.9	92.7	-	M	17.000
Fort William	98.9	89.3	91.5	95.9	93.7h	104.2	H	1.500
Keelylang Hill (Orkneys)	98.9	89.3	91.5	95.9	93.7ao	-	M	41.000
Meldrum	98.3	88.7	90.9	95.3	93.1a	-	M	150.000
Melvaig	98.7	89.1	91.3	95.7	93.5h	103.9	M	50.000
Rosemarkie	99.2	89.6	91.8	103.6	94.0h	104.9	M	20.000
Rumster Forest	99.7	90.1	92.3	104.5	94.5h	-	M	10.000
Sandale	97.7	88.1	90.3	92.5	94.7d	-	M	250.000
Ardgour	98.3	88.7	90.9	95.1	93.1h	104.9	H	0.050
Ballachulish	97.7	88.1	90.3	94.7	92.5h	103.7	M	0.025
Ben Gullipen	98.3	88.7	90.9	104.9	93.1	-	V	1.000
Bowmore (m)	97.7	88.1	90.3	95.7	92.5h	103.6	V	0.080
Cambret Hill	98.3	88.7	90.9	95.3	93.1d	-	H	0.064
Campbeltown	98.0	88.4	90.6	95.2	92.8	-	M	0.400
Cletraval	97.7	88.1	90.3	95.1	92.5h	103.7	V	2.000
Crieff	98.9	89.3	91.5	95.3	93.7	-	V	0.125
Daliburgh	98.9	89.3	91.5	95.9	93.7h	104.2	V	1.000
Durris	99.0	89.4	91.6	95.9	93.8a	-	M	2.100
Eyemouth	99.3	89.7	91.9	104.6	94.1t	-	V	0.100
Girvan	98.5	88.9	91.1	95.3	93.3	-	V	0.100
Glegorm	99.1	89.5	91.7	96.1	93.9h	103.5	M	5.000
Grantown	99.4	89.8	92.0	104.2	94.6h	-	H	0.350
Innerleithen	99.1	89.5	91.7	96.1	93.9t	-	M	0.020
Kingussie	98.7	89.1	91.3	95.7	93.5h	-	H	0.035
Kinlochleven	99.3	89.7	91.9	95.6	94.1h	104.4	M	0.010
Kirkconnel	98.3	88.7	90.9	95.3	93.1	-	M	0.040
Kirkton Mailer	98.6	89.0	91.2	104.5	93.4	-	M	0.964
Knock More	97.8	88.2	90.4	94.8	92.6h	-	M	0.500
Lethanhill	97.9	88.3	90.5	94.9	92.7	-	M	0.200
Lochgilthead	-	88.3	90.5	-	92.7	97.9	H	0.010
Mallaig	97.7	88.1	90.3	94.7	92.5h	104.3	H	0.014
Millburn Muir	97.9	88.3	90.5	104.1	92.7	-	M	0.050
Ness of Lewis	97.9	88.3	90.5	96.1	92.7h	104.9	V	0.200
Oban	98.5	88.9	91.1	95.3	93.3h	104.6	M	3.600
Peebles	98.0	88.4	90.6	95.0	92.8t	-	M	0.020
Penifiler	97.7	88.1	90.3	96.1	92.5h	104.3	M	0.010
Pitlochry	98.8	89.2	91.4	103.9	93.6	-	H	0.200
Port Ellen (m)	98.6	89.0	91.2	94.7	93.4h	104.9	V	0.065
Rosemount	99.2	89.6	91.8	95.5	94.0	-	V	0.032
Rosneath	98.8	89.2	91.4	103.8	93.6	-	M	0.032
Rothesay	98.1	88.5	90.7	95.1	92.9	-	M	0.570
Skriag	98.1	88.5	90.7	94.8	92.9h	104.7	M	30.000
South Knapdale	98.9	89.3	91.5	95.6	93.7	104.8(m)	H	1.100
Strachur	98.2	88.6	90.8	95.1	93.0	104.2(m)	M	0.018
Stranraer	99.3	89.7	91.9	103.6	94.1d	-	V	0.031
Tullich	99.7	90.1	92.3	104.5	94.5a	-	M	0.042
Ullapool	97.9	88.3	90.5	96.1	92.7h	104.9	V	0.050
West Kilbride	98.7	89.1	91.3	103.5	93.5	-	V	0.050

Radio Scotland opt-out services carry local programmes at various times during the day. For programme details see 'Radio Times'. a Aberdeen, d Dumfries, h Inverness, o Orkney, t Selkirk, z Shetland (m) presently in mono

Orkney Islands



Shetland Islands

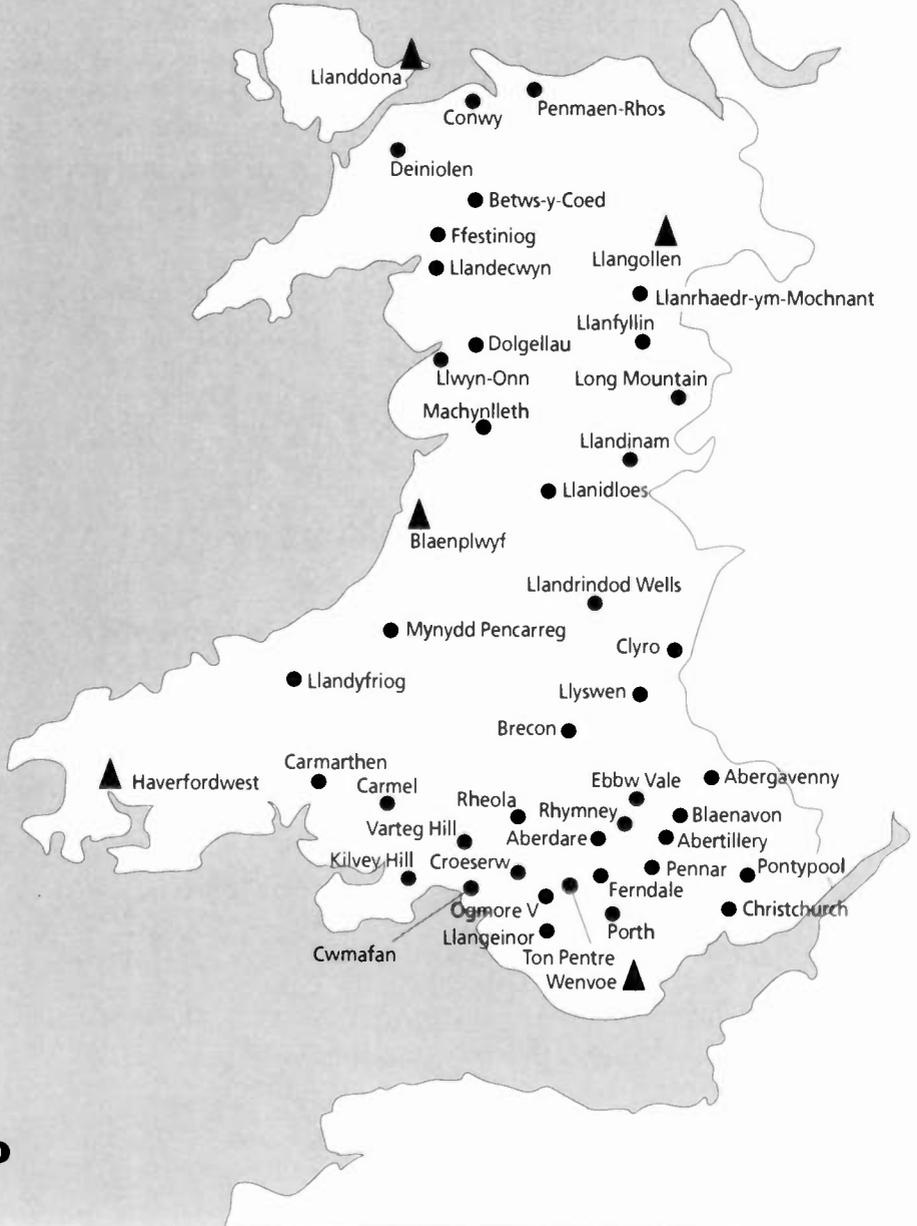


BBC FM transmitters in Scotland



BBC FM transmitters in Wales

- ▲ main / high power transmitter
- relay / low power transmitter



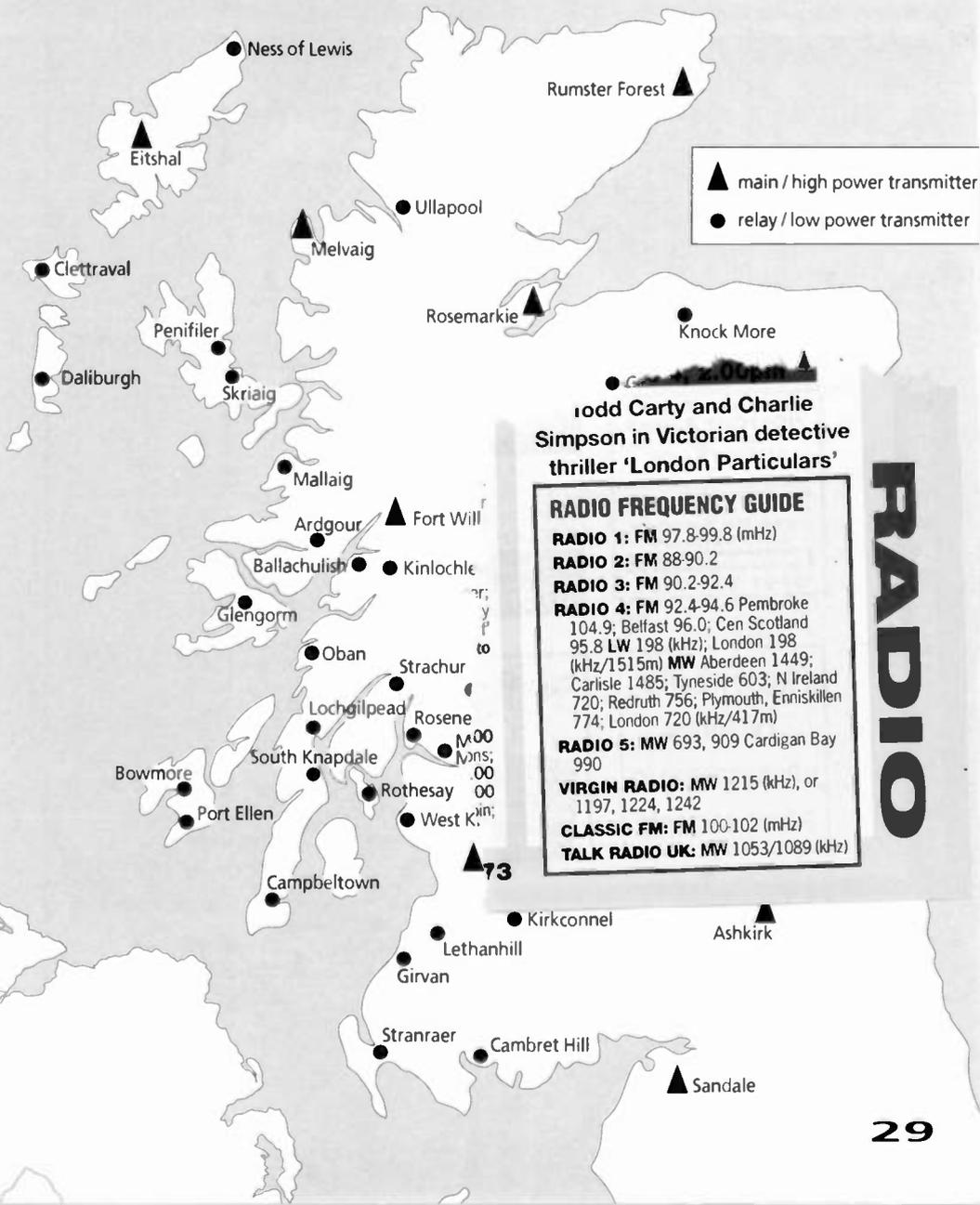
Orkney Islands



Shetland Islands



BBC FM transmitters in Scotland



▲ main / high power transmitter
● relay / low power transmitter

by **Ian Rankin**
Jack and Rose
Simpson in Victorian detective thriller 'London Particulars'

RADIO FREQUENCY GUIDE

RADIO 1: FM 97.8-99.8 (mHz)

RADIO 2: FM 88-90.2

RADIO 3: FM 90.2-92.4

RADIO 4: FM 92.4-94.6
 104.9; Belfast 96.0; Cen Scotland 95.8
 LW 198 (kHz); London 198 (kHz/1515m)
 MW Aberdeen 1449; Carlisle 1485; Tyneside 603; N Ireland 720; Redruth 756; Plymouth, Enniskillen 774; London 720 (kHz/417m)

RADIO 5: MW 693, 909
 Cardigan Bay 990

VIRGIN RADIO: MW 1215 (kHz), or 1197, 1224, 1242

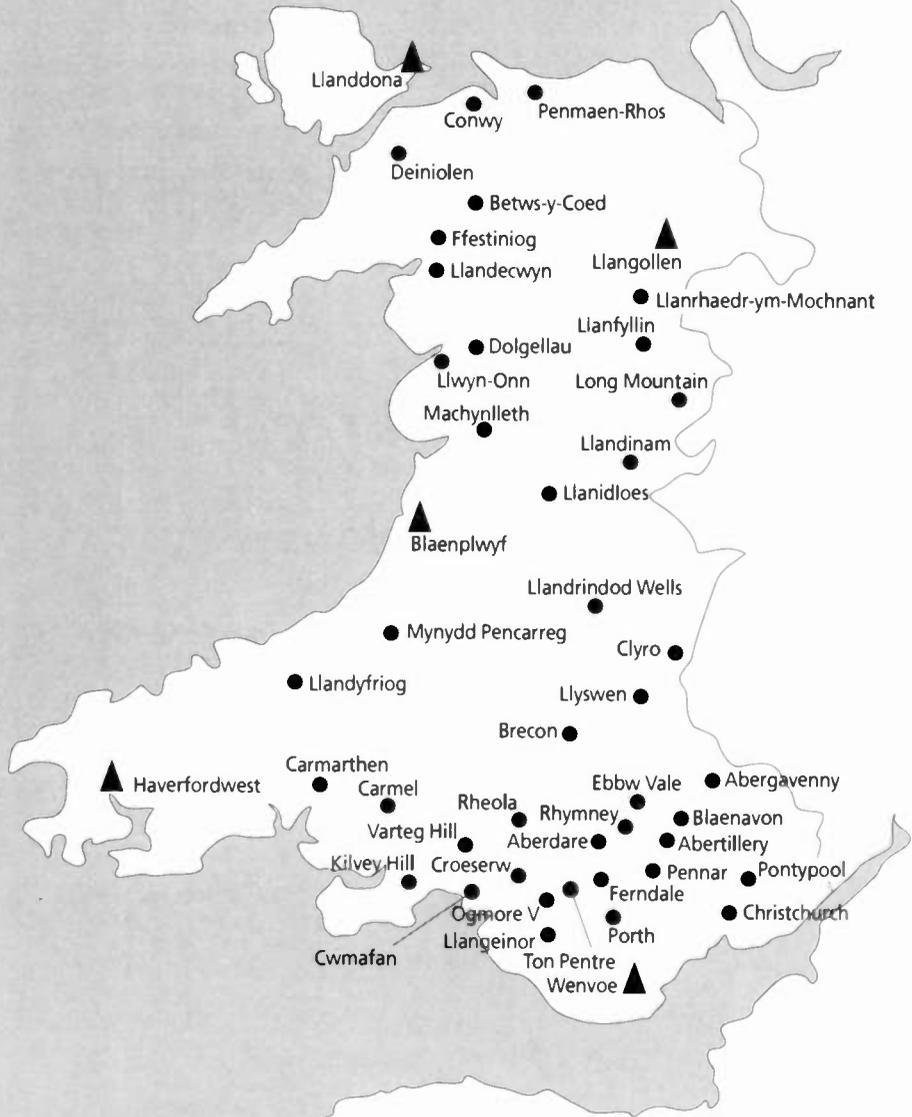
CLASSIC FM: FM 100-102 (mHz)

TALK RADIO UK: MW 1053/1089 (kHz)

RADIO

BBC FM transmitters in Wales

▲ main / high power transmitter
● relay / low power transmitter



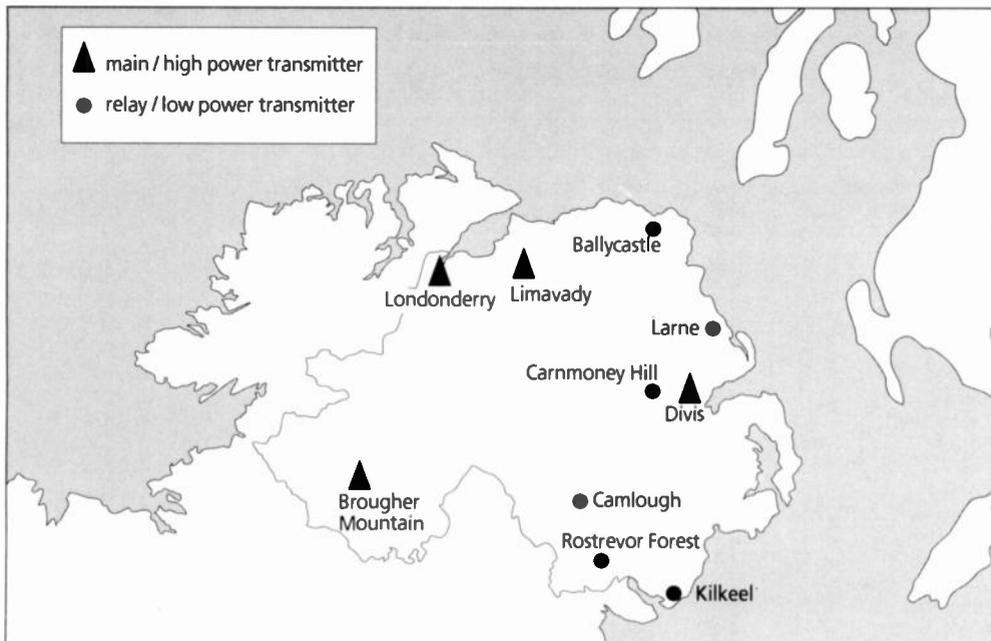
BBC FM radio in Wales

To find a station, first use the map to locate the nearest main transmitter. These are printed in bold and listed alphabetically. Tune your radio to the relevant frequency. If the reception is poor, either retune to a nearby relay station (also listed alphabetically), or to another main station. **(All Frequencies in MHz)**

Transmitter	Radio 1	Radio 2	Radio 3	Radio 4	Radio Cymru	POL	Power kw max erp
Blaenplwyf	98.3	88.7	90.9	104.0	93.1	M	250.000
Haverfordwest	98.9	89.3	91.5	104.9	93.7	M	20.000
Llanddona	99.4	89.8	92.0	103.6	94.2	M	21.000
Llangollen	98.5	88.9	91.1	93.3	104.3	M	16.000
Wenvoe	99.5	89.9	92.1	94.3	96.8	M	250.000
Aberdare	98.8	89.2	91.4	104.7	93.6	M	0.042
Abergavenny	98.3	88.7	90.9	93.1	103.5	M	0.040
Abertillery	98.6	89.0	91.2	93.4	104.3	V	0.010
Betws-y-Coed	97.8	88.2	90.4	104.9	92.6	H	0.010
Blaenavon	98.1	88.5	90.7	92.9	104.0	V	0.010
Brecon	98.5	88.9	91.1	104.7	93.3	H	0.010
Carmarthen	98.5	88.9	91.1	95.5	93.3	M	0.007
Carmel	98.0	88.4	90.6	104.6	92.8	M	3.000
Clyro	99.8	88.1	90.2	104.9	92.4	V	0.010
Conwy	98.7	89.1	91.3	104.4	93.5	V	0.050
Croeserw	98.6	89.0	91.2	103.6	93.4	V	0.010
Cwmafan	98.1	88.5	90.7	92.9	104.5	V	0.010
Deiniolen	97.7	88.1	90.3	104.1	92.5	V	0.050
Dolgellau (mono)	99.7	90.1	92.3	103.6	94.5	H	0.016
Ebbw Vale	98.0	88.4	90.6	92.8	104.6	M	0.020
Ferndale	99.2	89.6	91.8	94.0	104.9	V	0.010
Ffestiniog	97.7	88.1	90.3	103.5	92.5	H	0.049
Kilvey Hill	99.1	89.5	91.7	104.2	93.9	M	0.925
Llandecwyn*	99.0	89.4	91.6	93.8	104.9	V	0.100
Llandinam	99.7	90.1	92.3	94.5	96.1	M	0.035
Llandrindod Wells	98.7	89.1	91.3	103.8	93.5	M	2.800
Llandyfriog	99.7	90.1	92.3	104.4	94.5	M	0.087
Llanfyllin	98.7	89.1	91.3	93.5	95.7	M	0.014
Llangeinor	98.2	88.6	90.8	93.0	104.6	V	0.010
Llanidloes	97.7	88.1	90.3	104.8	92.5	H	0.005
Llanrhaeadr-ym-Mochnant	99.4	89.8	92.0	94.2	103.8	M	0.050
Llwyn-Onn	97.9	88.3	90.5	104.8	92.7	V	0.200
Llyswen	99.2	89.6	91.8	104.4	94.0	V	0.010
Long Mountain	99.2	89.6	91.8	94.0	103.6	H	0.024
Machynlleth	99.0	89.4	91.6	103.6	93.8	H	0.060
Mynydd Pencarreg	99.3	89.7	91.9	103.7	94.1	M	0.384
Ogmore Vale*	98.8	89.2	91.4	93.6	103.7	V	0.010
Penmaen Rhos	98.0	88.4	90.6	104.6	92.8	V	0.100
Pennar	99.1	89.5	91.7	93.9	103.7	V	0.005
Pontypool	98.8	89.2	91.4	104.8	93.6	M	0.050
Porth	98.0	88.4	90.6	92.8	104.5	V	0.010
Rheola	97.8	88.2	90.4	104.8	92.6	V	0.010
Rhymney	98.9	89.3	91.5	93.7	104.9	V	0.020
Ton Pentre	98.4	88.8	91.0	104.3	93.2	M	0.005
Varteg Hill	98.5	88.9	91.1	103.5	93.3	M	0.048
					Radio Wales		
Blaenavon					95.1	V	0.010
Christchurch					95.9	M	0.500

* transmitters or frequencies marked with an asterisk (*) are proposed, but are not yet in service

BBC FM radio in N. Ireland



Transmitter	Radio 1	Radio 2	Radio 3	Radio 4	Radio Ulster	POL	Power kW Max erp
Brougher Mountain	99.0	89.4	91.6	95.6	93.8	M	9.800
Divis	99.7	90.1	92.3	-	94.5	M	250.000
Divis	-	-	-	96.0	-	M	125.000
Limavady	99.2	89.6	91.8	94.0	95.4	M	3.400
Londonderry	98.3	88.7	90.9	-	93.1f	M	31.000
Londonderry	-	-	-	94.9	-	M	10.000
Ballycastle	98.4	88.8	91.0	93.2	95.1	M	0.100
Camlough	98.3	88.7	90.9	104.6	93.1	M	2.000
Carmoney Hill	98.4	88.8	91.0	93.2	95.3	V	0.020
Kilkeel	99.0	89.4	91.6	103.9	93.8	H	0.025
Larne	98.7	89.1	91.3	103.5	93.5	M	0.032
Rostrevor Forest	97.9	88.3	90.5	103.9	92.7	M	0.032

Radio Ulster opt-out services carry local programmes at various times during the day. For programme details see 'Radio Times'. f Radio Foyle

Republic of Ireland

Radio Telefis Eireann (RTE) is the statutory corporation for the Irish Republic.

In England and Wales, RTE broadcasts are usually best heard on the medium wave band, with the strongest reception found in the west and south west. Tel: 00 353 (1) 2083111

RTE Radio 1...broadcasts current affairs type programmes, chat shows, and music.

2FM...broadcasts mainly pop music. News is broadcast on the hour.

FM 3 and Radio Na Gaeltachta...share the same frequencies. FM 3 broadcasts predominantly classical music Radio Na Gaeltachta opts-out, with programmes for Irish speaking communities.

Atlantic 252

Independent station owned by RTE and Luxembourg: based near Dublin. Broadcasts pop music to the UK on 252 kHz (LW) from its 500kW Transmitter. Broadcasts 24 hours a day. Tel: 00 353 46 36644

Independent Radio and TV Commission

The IRTC supports approximately 40 low power local FM stations. Space prevents us listing the full details here.

IRTC Tel: 00 353 (1) 760966

RTE FM Transmitters	RADIO 1	2 FM	FM 3 / RnaG	Power (ERP kW)	POL
MAIN TRANSMITTERS (Frequencies in MHz)					
Clermont Carn	95.2	97.0	102.7	40	V
Holywell Hill	89.2	91.4	93.6	2	M
Kippure	89.1	91.3	93.5	40	M
Maghera	88.8	91.0	93.2	160	V
Mount Leinster	89.6	91.8	94.0	100	V
Mullaghanish	90.0	92.2	94.4	160	V
Three Rock	88.5	90.7	92.9	10	M
Truskmore	88.2	90.4	92.6	80	V

RTE medium wave transmitters

	Frequency (kHz)	Power (kW)
Radio 1 (Tullamore)	567	500
Radio 1/Cork Local Radio	729	10
2FM (Athlone)	612	100
2FM (Cork/Cork Local)	1278	10
2FM (Dublin)	1278	10

national MW and LW radio

radio 4

Transmitter	Frequency kHz	power kW
Burghead	198	50.00
Carlisle	1485	1.00
Droitwich	198	500.00
Enniskillen	774	1.00
Lisnagarvey	720	10.00
London (Lots Road)	720	0.75
Londonderry	720	0.25
Newcastle	603	2.00
Plymouth	774	1.00
Redmoss	1449	2.00
Redruth MF	756	2.00
Westerglen	198	50.00

radio Scotland

Burghead	810	100.00
Dumfries	585 d	2.00
Redmoss	810	5.00
Redmoss	990 a	1.00
Westerglen	810	100.00

radio Wales

Forden	882	1
Llandrindod MF	1125	1
Penmon	882	10
Tywyn	882	5
Washford	882	100
Wrexham	657	2

radio 5 Live

Transmitter	Frequency kHz	power kW
Barrow	693	1.00
Bexhill	693	1.00
Bournemouth	909	0.25
Brighton	693	1.00
Brookmans Park	909	150.00
Burghead	693	25.00
Clevedon	909	50.00
Droitwich	693	150.00
Enniskillen	693	1.00
Exeter	909	1.00
Fareham	909	1.00
Folkstone	693	1.00
Lisnagarvey	909	10.00
Londonderry	909	1.00
Moorside Edge	909	200.00
Postwick	693	10.00
Redmoss	693	1.00
Redruth MF	909	2.00
Stagshaw	693	50.00
Start Point	693	50.00
Tywyn	990	1.00
Westerglen	909	50.00
Whitehaven	909	1.00

radio Ulster

Enniskillen	873	1
Lisnagarvey	1341	100
Londonderry	792 f	1

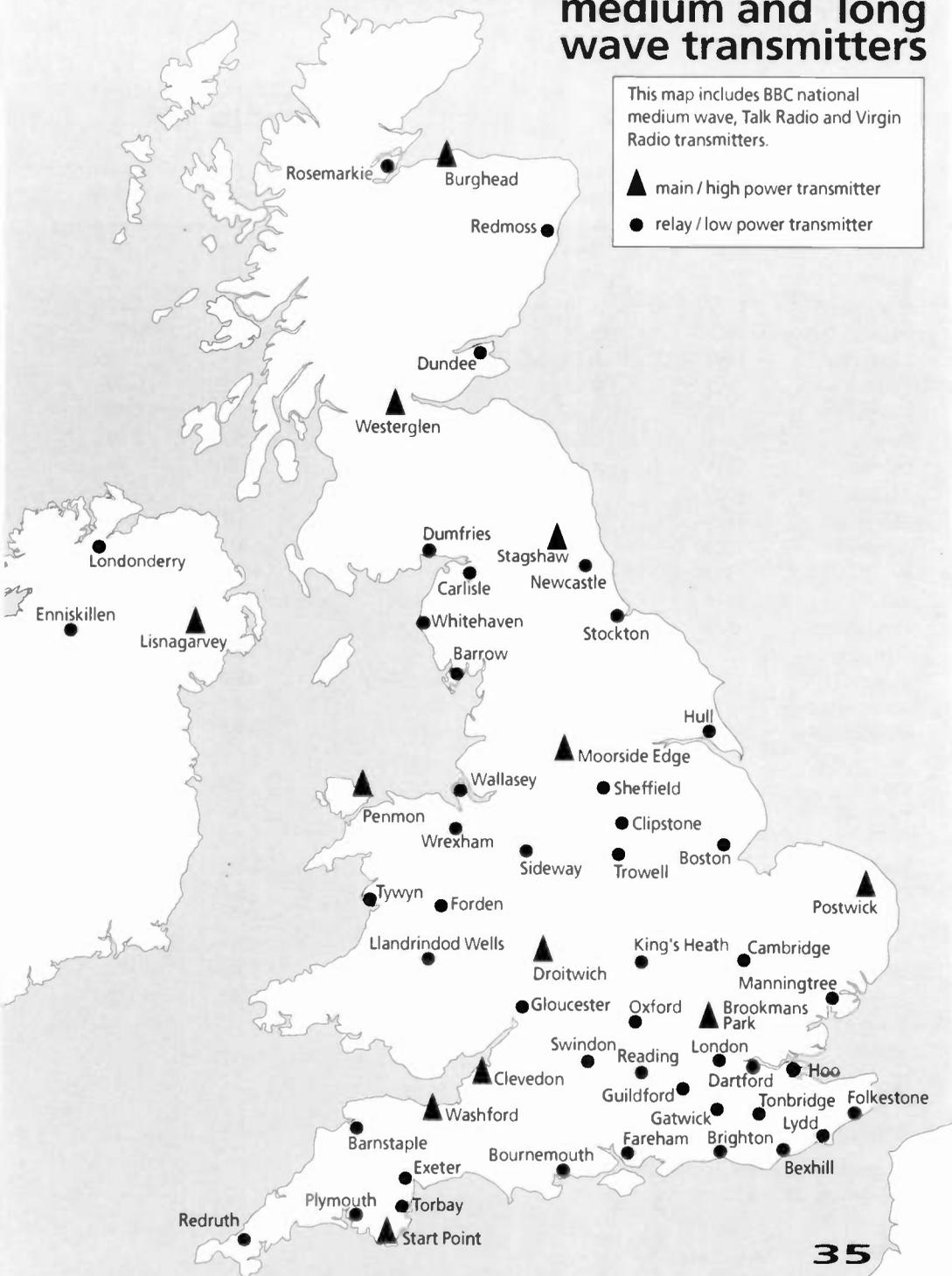
Opt-out services. Marked with a letter they carry local programmes at various times during the day. For details see 'Radio Times'.

a Radio Aberdeen d Radio Solway f Radio Foyle

medium and long wave transmitters

This map includes BBC national medium wave, Talk Radio and Virgin Radio transmitters.

- ▲ main / high power transmitter
- relay / low power transmitter



Virgin and Talk Radio

Virgin Radio

Transmitter	Frequency kHz	power (EMRP) kW
Boston	1242	2.00
Bournemouth	1197	0.25
Brighton	1197	1.10
Brookmans Park	1215	125.00
Cambridge	1197	0.20
Dartford Tunnel	1215	0.004
Droitwich	1215	105.00
Dundee	1242	0.50
Fareham	1215	1.00
Gatwick	1233	0.20
Gloucester	1197	0.30
Guildford	1260	0.50
Hoo	1197	2.00
Hull	1215	0.32
Kings Heath	1233	0.50
Lisnagarvey	1215	16.00
Lydd	1260	1.00
Manningtree	1233	0.50
Moorside Edge	1215	200.00
Newcastle	1215	2.20
Oxford	1197	0.25
Plymouth	1215	1.10
Postwick	1215	1.20
Reading	1233	0.16
Redmoss	1215	2.30
Sheffield	1233	0.30
Sideway	1242	0.50
Stockton	1242	1.00
Swindon	1233	0.10
Torbay	1197	1.00
Trowell	1197	0.50
Wallasey	1197	0.40
Washford	1215	100.00
Westerglen	1215	100.00

Talk Radio UK

Transmitter	Frequency KHZ	power (EMRP) kW
Boston	1107	1.00
Bournemouth	1053	1.00
Brighton	1053	2.20
Brookmans Park	1089	400.00
Clipstone	1071	1.00
Dartford Tunnel	1089	0.004
Droitwich	1053	500.00
Dumfries	1053	2.00
Dundee	1053	1.00
Exeter	1053	1.00
Fareham	1107	1.00
Gatwick	1107	2.00
Hull	1053	1.00
Lisnagarvey	1089	12.50
Londonderry	1053	400.00
Lydd	1107	2.00
Moorside Edge	1089	400.00
Newcastle	1071	1.00
Postwick	1053	18.00
Plymouth	1053	1.00
Redmoss	1089	2.20
Redruth	1089	2.00
Rosemarkie	1053	1.00
Stockton	1053	1.00
Tonbridge	1053	4.00
Torbay	1107	1.00
Wallasey	1107	0.50
Washford	1089	80.00
Westerglen	1089	125.00

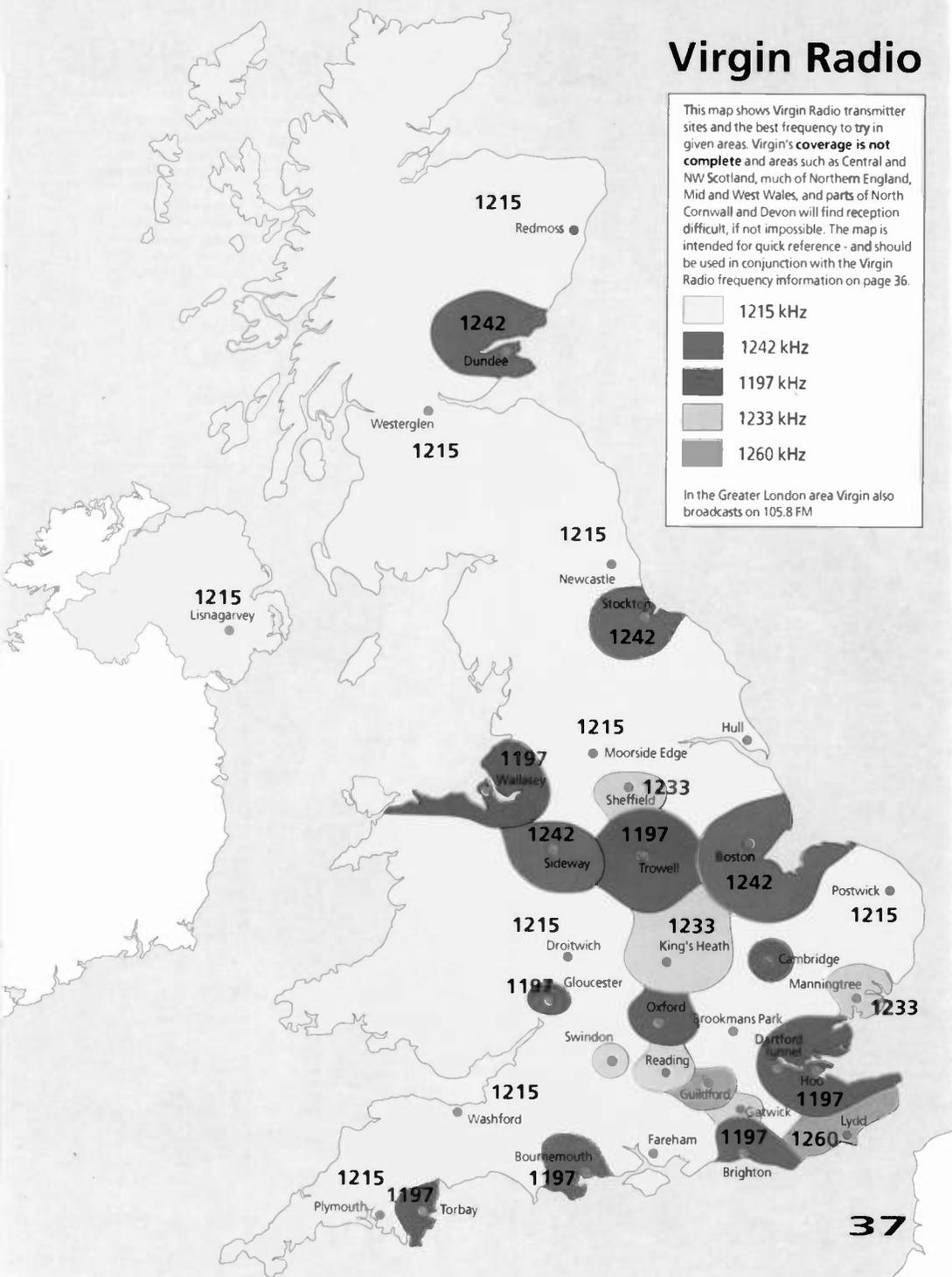
Virgin Radio London is available in the Greater London area on 105.8 MHz FM.

Virgin Radio

This map shows Virgin Radio transmitter sites and the best frequency to try in given areas. Virgin's coverage is not complete and areas such as Central and NW Scotland, much of Northern England, Mid and West Wales, and parts of North Cornwall and Devon will find reception difficult, if not impossible. The map is intended for quick reference - and should be used in conjunction with the Virgin Radio frequency information on page 36.

-  1215 kHz
-  1242 kHz
-  1197 kHz
-  1233 kHz
-  1260 kHz

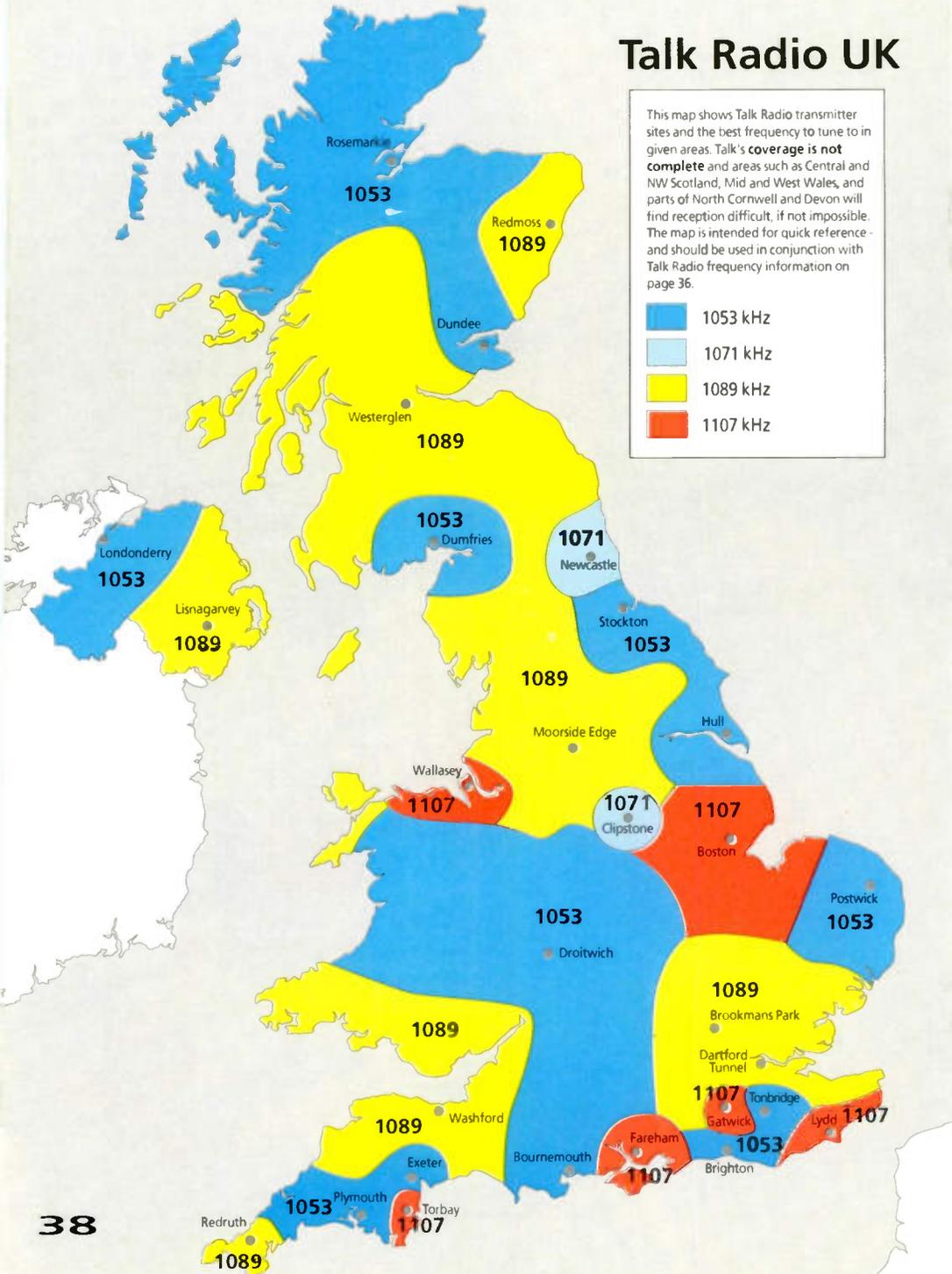
In the Greater London area Virgin also broadcasts on 105.8 FM



Talk Radio UK

This map shows Talk Radio transmitter sites and the best frequency to tune in in given areas. Talk's coverage is not complete and areas such as Central and NW Scotland, Mid and West Wales, and parts of North Cornwall and Devon will find reception difficult, if not impossible. The map is intended for quick reference and should be used in conjunction with Talk Radio frequency information on page 36.

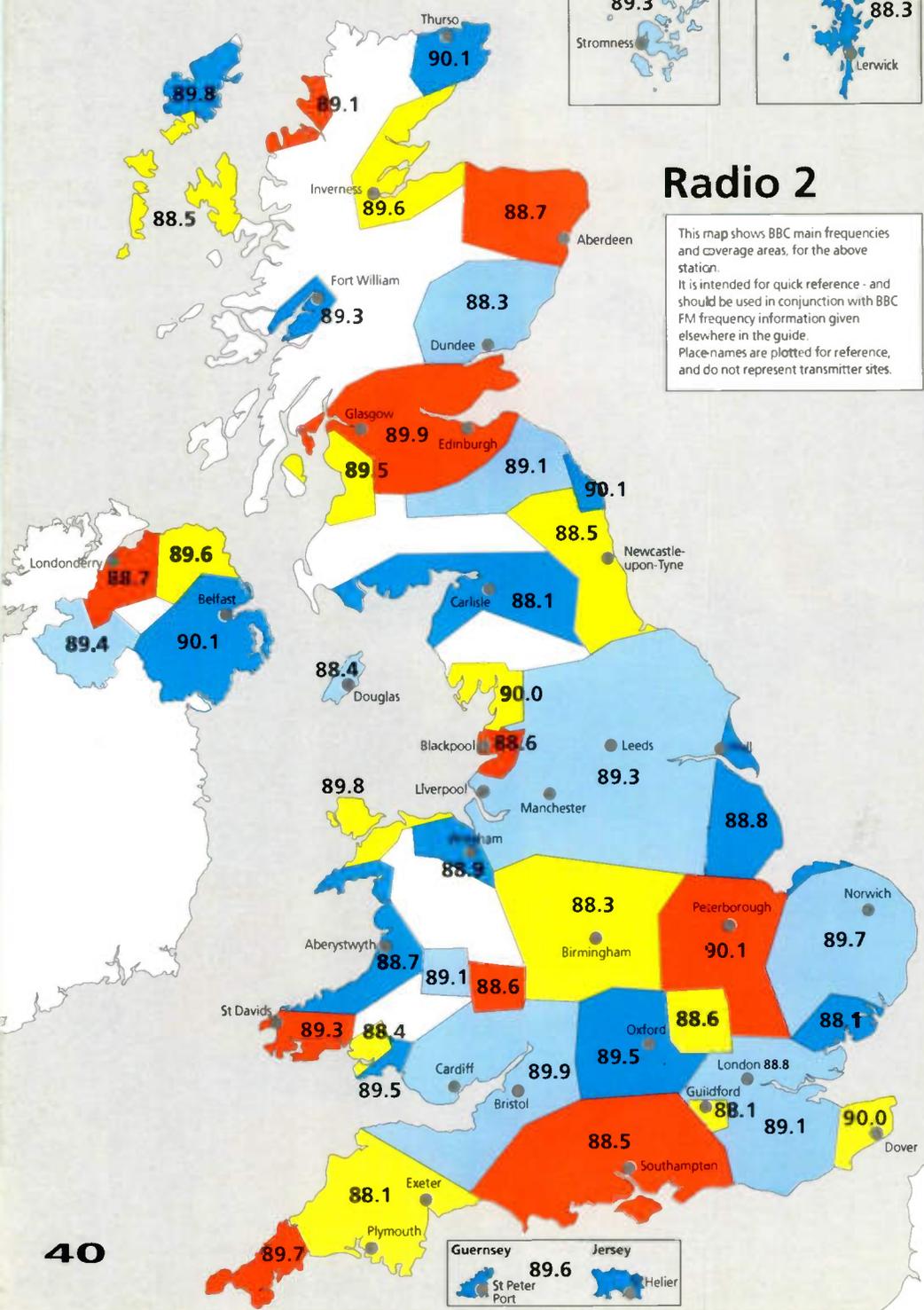
- 1053 kHz
- 1071 kHz
- 1089 kHz
- 1107 kHz

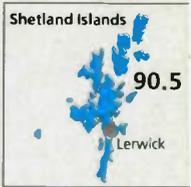




Radio 2

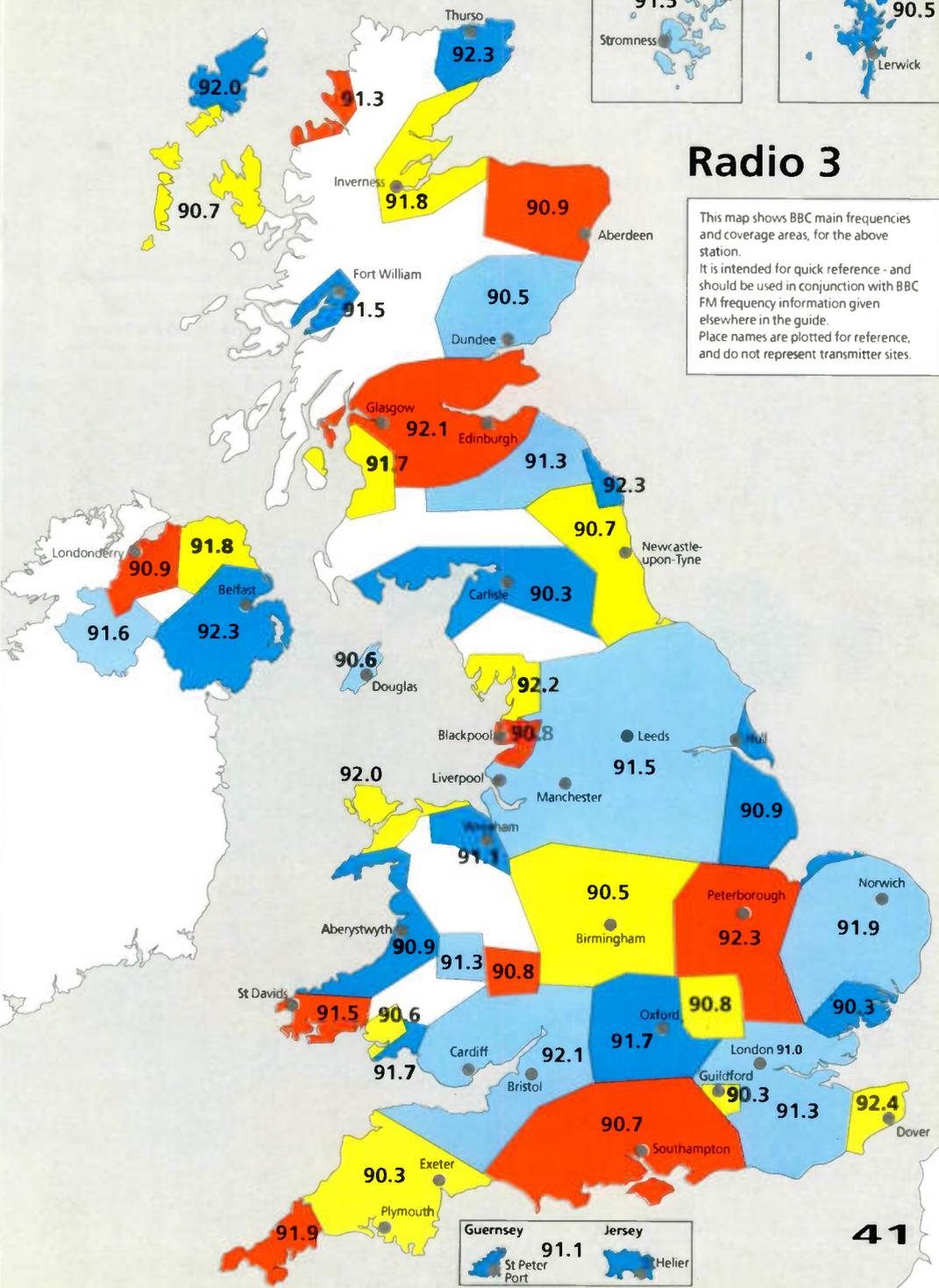
This map shows BBC main frequencies and coverage areas, for the above station. It is intended for quick reference - and should be used in conjunction with BBC FM frequency information given elsewhere in the guide. Place names are plotted for reference, and do not represent transmitter sites.





Radio 3

This map shows BBC main frequencies and coverage areas, for the above station.
 It is intended for quick reference - and should be used in conjunction with BBC FM frequency information given elsewhere in the guide.
 Place names are plotted for reference, and do not represent transmitter sites.

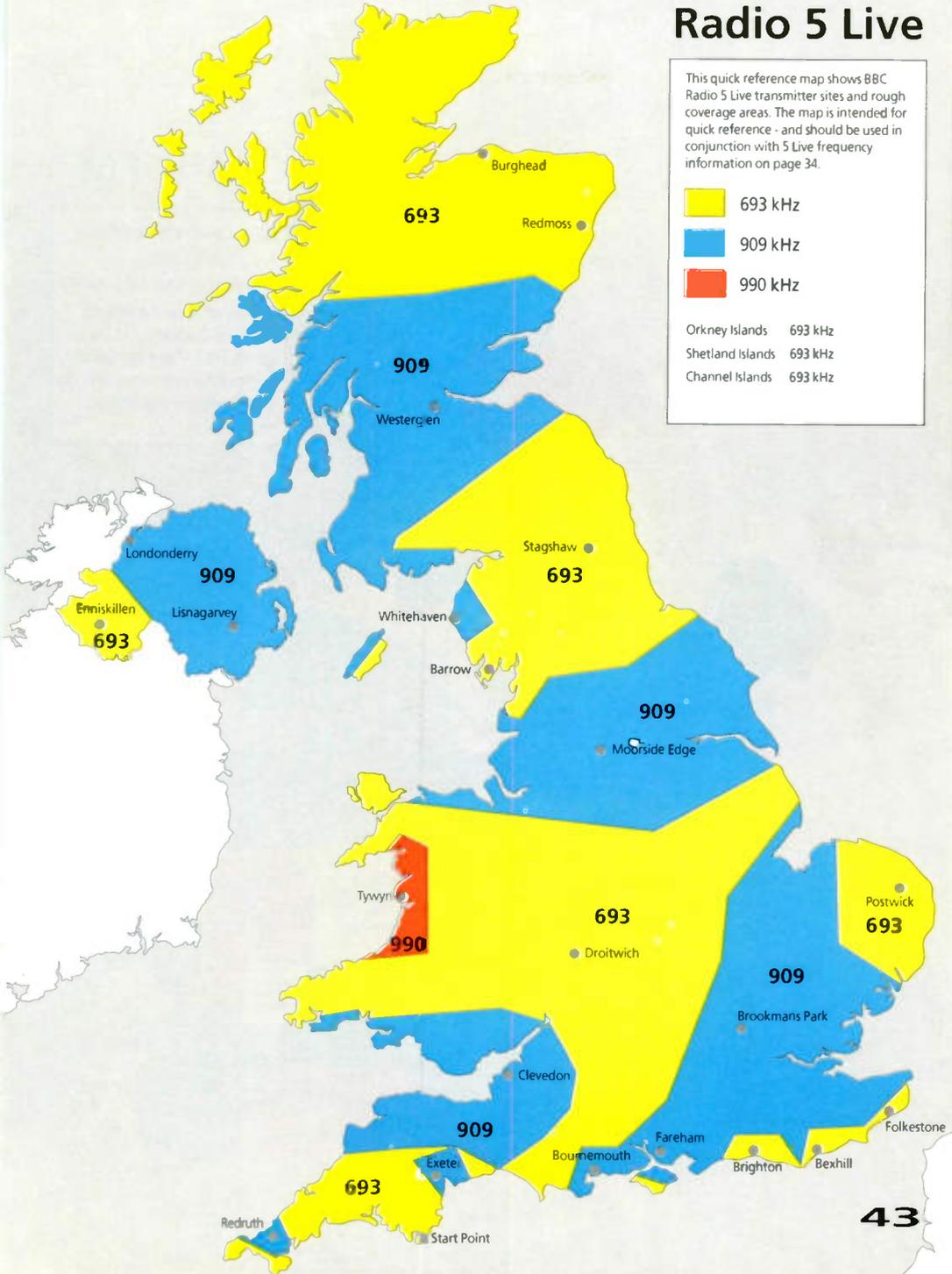


Radio 5 Live

This quick reference map shows BBC Radio 5 Live transmitter sites and rough coverage areas. The map is intended for quick reference - and should be used in conjunction with 5 Live frequency information on page 34.

- 693 kHz
- 909 kHz
- 990 kHz

Orkney Islands 693 kHz
 Shetland Islands 693 kHz
 Channel Islands 693 kHz

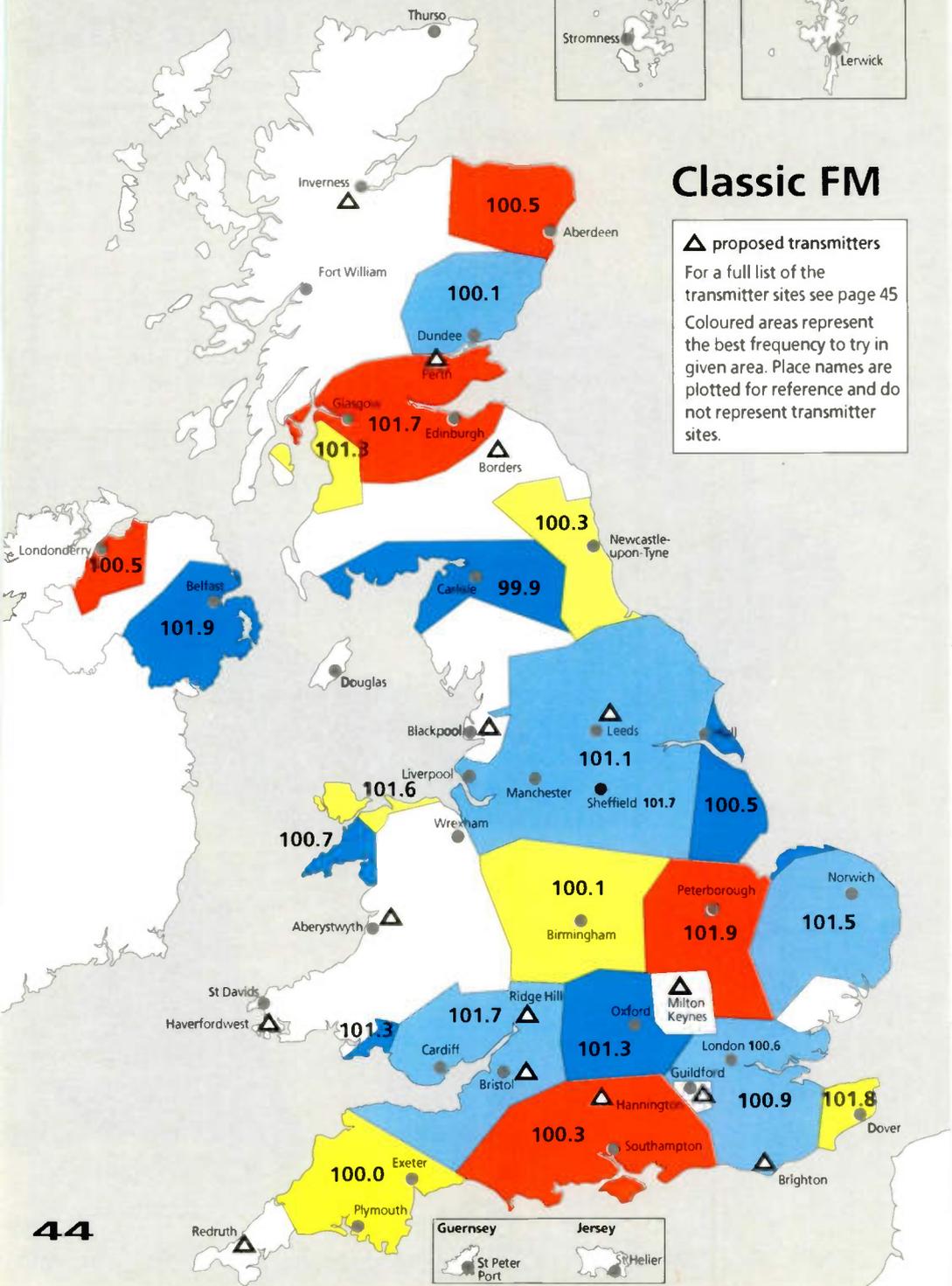




Classic FM

△ proposed transmitters

For a full list of the transmitter sites see page 45
 Coloured areas represent the best frequency to try in given area. Place names are plotted for reference and do not represent transmitter sites.



Classical music and news.

Classic FM broadcasts on FM 24 hours a day.

Transmitter	Frequency	Power kW	
		ERP HP	ERP VP
Angus	100.1	2.125	8.500
Arfon	100.7	10.000	10.000
Belmont	100.5	3.200	3.200
Black Hill	101.7	125.000	125.000
Crystal Palace	100.6	0.000	2.000
Darvel	101.3	4.000	4.000
Divis	101.9	60.000	0.000
Dover	101.8	1.000	4.200
Great Ormes Head	101.6	2.000	2.000
Holme Moss	101.1	125.000	125.000
Kilvey Hill	101.3	0.125	0.500
Londonderry	100.5	15.500	15.500
Meldrum	100.5	75.000	75.000
North Hessary Tor	100.0	80.000	80.000
Oxford	101.3	23.000	23.000
Peterborough	101.9	20.000	20.000
Pontop Pike	100.3	65.000	65.000
Rowridge	100.3	125.000	125.000
Sandale	99.9	125.000	125.000
Sheffield	101.7	0.250	0.250
Sutton Coldfield	100.1	125.000	125.000
Tacolneston	101.5	125.000	125.000
Wenvoe	101.7	125.000	125.000
Wrotham	100.9	125.000	125.000

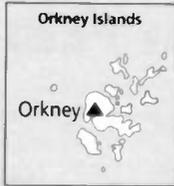
Further transmitters are planned to give greater coverage and improved reception. These should lie within the band 99.9MHz to 101.9MHz. Locations include Inverness, Perth (Tayside), Borders, Lancashire, Leeds / Bradford, Aberystwyth, Haverfordwest, Ridge Hill (Glos), Bristol / Bath, Milton Keynes, Hannington, Guildford, Brighton and Redruth. They are all awaiting frequency clearance.

All Classic FM's transmissions are in FM stereo and a RDS signal is also transmitted. The RDS identification is 'CLASSIC'.

BBC local radio

Details of BBC local radio station's programmes are published in Radio Times. When not on-air as a local station, stations usually transmit either Radio 1 or Radio 2.

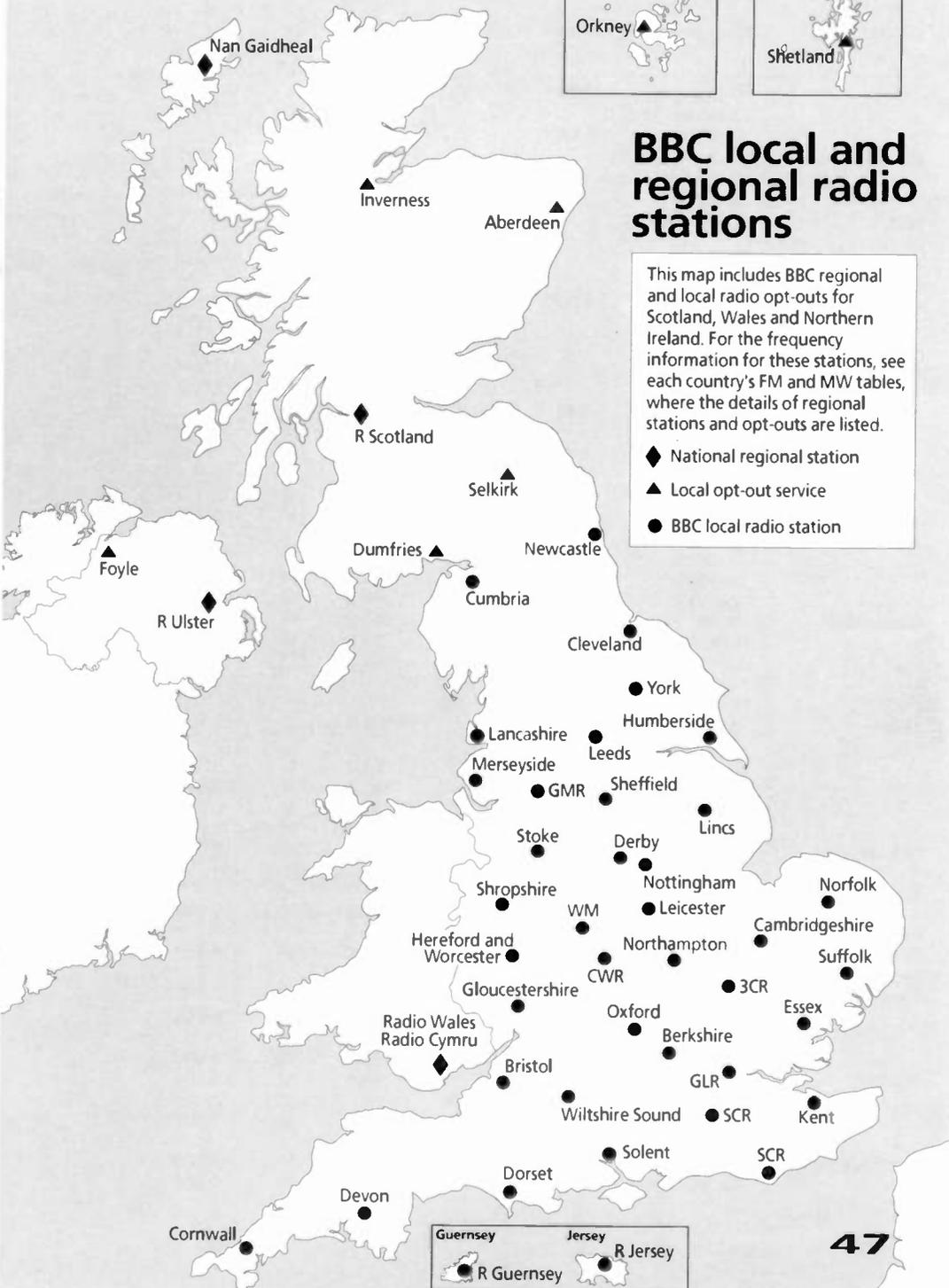
Station	transmitter	MW	Power kW (EMRP)	FM	POL	POWER kW (Max ERP)	info
3CR (Three Counties Radio)	Bow Brickhill	-	-	104.5	M	2.200	
	Sandy Heath	-	-	95.5	M	1.000	
	Zouches Farm	-	-	103.8	M	0.500	
	Bedford	1161	0.100	-			
	Luton	630	0.200	-			
Berkshire	Hannington	-	-	104.1	M	3.000	opts out Oxford
	Henley	-	-	94.6	M	0.250	
	Reading	-	-	104.4	M	1.000	
	Windsor	-	-	95.4	V	0.500	
Bristol	Bath	-	-	104.6	M	0.082	
	Ilchester Crescent	-	-	94.9	M	0.950	
	Mendip	-	-	95.5	M	9.000	
	Mangotsfield	1548	5.000	-			
	Taunton	1323	0.630	-			
Cambridgeshire	Cambridge	-	-	96.0	M	1.000	
	Cambridge	1026	0.500	-			
	Gunthorpe	1449	0.150	-			
	Peterborough	-	-	95.7	M	5.100	
Cleveland	Bilsdale	-	-	95.0	M	10.000	
	Whitby	-	-	95.8	M	0.100	
Cornwall	Bodmin	657	0.500	-			
	Caradon Hill	-	-	95.2	M	4.300	
	Isles of Scilly	-	-	96.0	M	0.060	
	Redruth	630	2.000	-			
	Redruth	-	-	103.9	M	18.000	
Cumbria (North Service)	Carlisle	756	1.000	-			
	Sandale	-	-	95.6	M	15.000	
	Whitehaven	1458	0.500	-			
Cumbria (South Service)	Barrow	837	1.000	-			
	Kendal	-	-	95.2	M	0.100	
	Morecambe Bay	-	-	96.1	M	3.200	
	Windermere	-	-	104.2	M	0.065	
CWR Coventry and Warks	Lark Stoke	-	-	103.7	M	1.400	CWR now part of BBC WM
	Meriden	-	-	94.8	M	2.200	
	Nuneaton	-	-	104.0	V	0.050	
	Burnaston Lane	1116	1.000	-			
Derby	Derby	-	-	94.2	V	0.010	
	Stanton Moor	-	-	95.3	M	1.200	
	Sutton Coldfield	-	-	104.5	M	5.400	
	Barnstaple	801	2.000	-			
Devon	Exeter	990	1.000	-			
	Exeter	-	-	95.8	M	0.400	
	North Devon	-	-	94.8	M	0.675	
	North Hessary Tor	-	-	103.4	M	15.000	
	Okehampton	-	-	96.0	M	0.070	
	Plymouth	855	1.000	-			
	Torbay	1458	2.000	-			
	Bincombe Hill	-	-	103.8	V	0.500	opts R.Devon
Dorset FM Essex (BBC)	Chelmsford	765	0.500	-			
	Great Braxted	-	-	103.5	M	12.000	



BBC local and regional radio stations

This map includes BBC regional and local radio opt-outs for Scotland, Wales and Northern Ireland. For the frequency information for these stations, see each country's FM and MW tables, where the details of regional stations and opt-outs are listed.

- ◆ National regional station
- ▲ Local opt-out service
- BBC local radio station



BBC local radio

Station	transmitter	MW	Power kW (EMRP)	FM	POL	POWER kW (Max ERP)	info
Gloucestershire	Manningtree	729	0.200	-			
	South Benfleet	-		95.3	M	1.200	
	Southend	1530	0.150	-			
	Churchdown Hill	-		104.7	M	2.000	
	Cirencester	-		95.8	V	0.080	
GLR (Greater London Radio)	Stroud	-		95.0	M	0.100	
	Crystal Palace	-		94.9	M	4.000	
GMR (Greater Manchester Radio)	Holme Moss	-		95.1	M	5.600	
Guernsey	Guernsey	1116	0.500	-			
Hereford and Worcs	Les Touillets	-		93.2	M	1.000	
	Great Malvern	-		104.0	M	2.000	
	Kidderminster	-		104.6	M	0.500	
	Ridge Hill	-		94.7	M	2.000	
Humberside	Worcester	738	0.037	-			
	High Hunsley	-		95.9	M	9.600	
Jersey	Hull	1485	2.000	-			
	Jersey	1026	1.000	-			
Kent	Les Platons	-		88.8	M	3.800	
	Folkestone	-		97.6	V	0.100	
Lancashire	Littlebourne	774	0.700	-			
	Rusthall	1602	0.250	-			
	Swingate	-		104.2	M	10.000	
	Wrotham	-		96.7	M	8.700	
	Winter Hill	-		103.9	M	2.000	
	Hambledon Hill	-		95.5	M	1.600	
Leeds	Lancaster	-		104.5	M	2.000	
	Oxcliffe	1557	0.250	-			
	Preston	855	1.000	-			
	Beecroft Hill	-		103.9	V	0.100	
	Farnley	774	0.500	-			
	Holme Moss	-		92.4	M	5.600	
	Keighley*	-		102.7	V	0.500	
Leicester	Luddenden	-		95.3	V	0.083	
	Wharfedale	-		95.3	M	0.040	
	Copt Oak	-		104.9	M	8.000	
	Freemen's Cmn'	837	0.500	-			
Lincolnshire	Belmont	-		94.9	M	6.000	
	Grantham	-		104.7	V	0.035	
	Lincoln	1368	2.000	-			
Merseyside	Allerton Park	-		95.8	M	8.000	
	Wallasey	1485	2.000	-			
Newcastle	Chatton	-		96.0	M	5.600	
	Fenham	-		104.4	V	0.042	
	Newcastle	1458	2.000	-			
Norfolk	Pontop Pike	-		95.4	M	10.000	
	Gt. Massingham	-		104.4	M	4.200	
	Postwick	855	2.000	-			
	Tacolneston	-		95.1	M	5.700	
Northampton	West Lynn	873	0.300	-			
	Geddington	-		103.6	M	0.800	
	Northampton	-		104.2	M	4.000	

BBC local radio

Station	transmitter	MW	Power kW (EMRP)	FM	POL	POWER kW (Max ERP)	info
Nottingham	Clipstone	1584	1.000	-			
	Mansfield	-		95.5	M	2.000	
	Mapperley Ridge	-		103.8	M	1.000	
Oxford	Oxford	-		95.2	M	5.800	
	SCR	1161	1.000	-			
	Brighton	1485	1.000	-			
	Burton Down	-		104.8	V	2.000	
	Duxhurst	1368	0.500	-			
	Guildford	-		104.6	M	3.000	
	Heathfield	-		104.5	M	10.000	
	Horsham	-		95.1	M	0.040	
	Newhaven	-		95.0	M	0.100	
	Reigate	-		104.0	M	3.800	
	Whitehawk Hill	-		95.3	M	1.200	
Sheffield	Chesterfield	-		94.7	V	0.400	
	Holme Moss	-		104.1	M	4.400	
	Sheffield	1035	1.000	-			
	Sheffield	-		88.6	M	0.160	
Shropshire	Ludlow	-		95.0	M	0.010	
	The Wrekin	-		96.0	M	4.800	
	Woofferton	1584	0.300	-			
Solent	Bournemouth	1359	0.850	-			
	Fareham	999	1.000	-			
	Rowridge	-		96.1	M	10.000	
Stoke	Alsagers Bank	-		94.6	M	6.100	
	Sideway	1503	1.000	-			
Suffolk	Gt Barton	-		104.6	M	2.000	
	Lowestoft	-		95.5	V	0.050	
	Manningtree	-		103.9	M	5.000	
Wiltshire Sound	Blunsdon	-		103.6	M	0.500	
	Lacock	1332	0.300	-			
	Marlborough	-		104.9	V	0.100	
	Naish Hill	-		104.3	M	0.600	
	Newton Barrow	-		103.5	V	1.000	
	Swindon	1368	0.100	-			
	Sutton Coldfield	-		95.6	M	11.000	
WM (West Midlands)	Langley Mill	1458	5.000	-			
	Sedgley	828	0.200	-			Asian opt-outs
	Aklam Wold	-		103.7	V	2.000	Asian opt-outs
York	Fulford (York)	666	0.500	-			
	Oliver's Mount	-		95.5	M	0.250	
	Scarborough	1260	0.500	-			
	Woolmoor	-		104.3	V	0.500	

* stations, transmitters or frequencies marked with an asterisk (*) are proposed, but are not yet in service

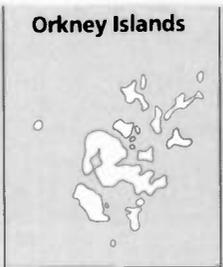
Local opt-out stations. In Scotland, Wales, and Northern Ireland, BBC National services sometimes broadcast local information. For details about these 'local' opt out services, see the respective FM national sections.

independent local radio

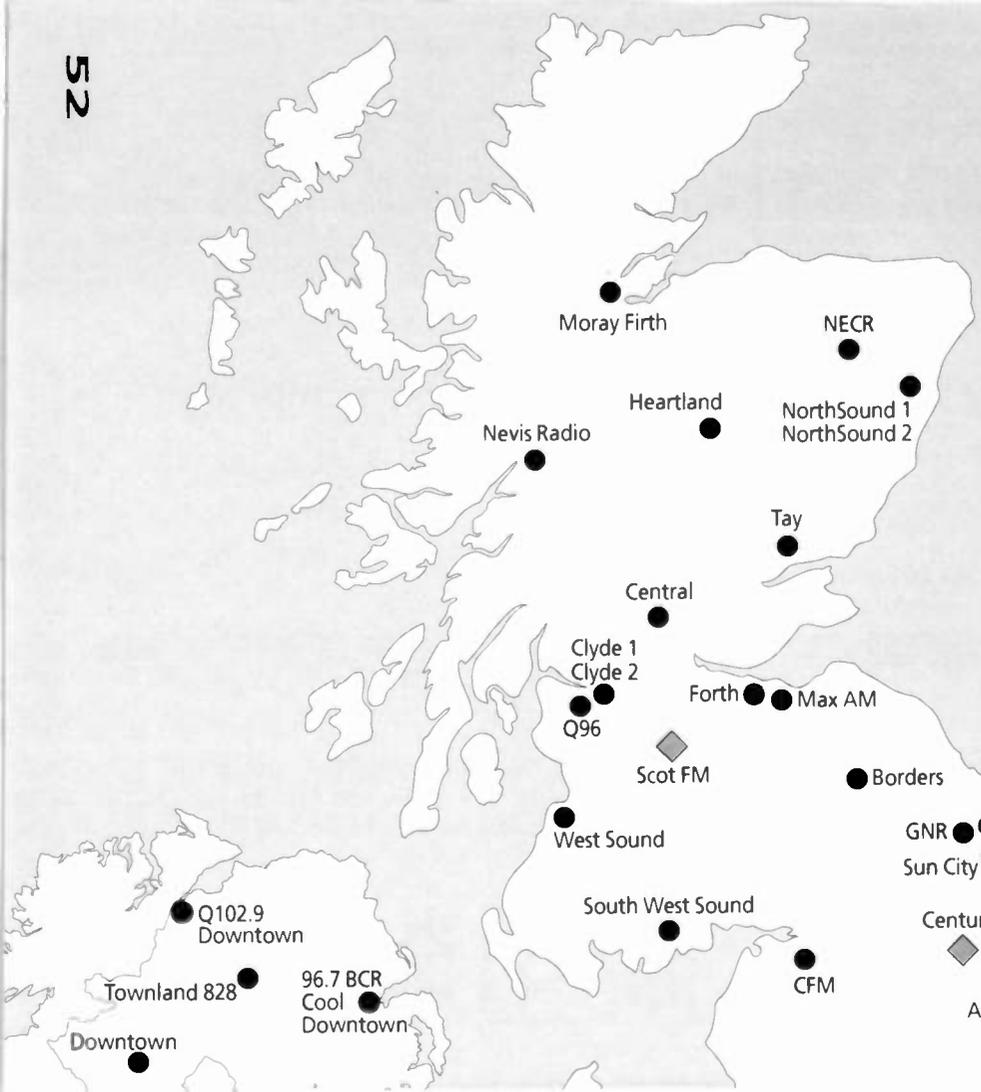
station	coverage area	power kW		power kW		information	
		MW	erp	MW	erp v		
erp - effective mean radiated power, erp h - effective radiated power horizontally polarized, erp v - effective radiated power vertically polarized, TA - a TA in this column indicates that the station broadcasts RDS Traffic Announcements							
2 Ten FM	Reading	-	-	97.0	0.100	0.400	hits
	Basingstoke/Andover	-	-	102.9	2.000	2.000	
2CR FM	Bournemouth	-	-	102.3	0.400	1.600	chart hits
96.7 BCR	Belfast	-	-	96.7	0.250	0.300	TA recent hits
A1 FM*	Darlington	-	-	103.2*	-	-	FM stn due end of 95
Aire FM	Leeds	-	-	96.3	0.300	0.300	recent hits
Amber	Bury St. Edmunds	1251	0.760	-	-	-	
	Gt Yarmouth/Norwich	1152	0.830	-	-	-	
	Ipswich	1170	0.280	-	-	-	
	East Lancashire	963*	-	-	-	-	AM due Spring 1996
Asian Sound*	Bedford	-	-	96.9	0.450	0.450	classic hits
B97 Chiltern FM	Kendal	-	-	103.2	0.050	0.050	contemporary music
Bay (The)	Morecambe Bay	-	-	96.9	1.600	1.600	
	Windermere	-	-	102.3	0.008	0.032	
Beacon	Shrewsbury	-	-	103.1	0.500	0.500	TA recent hits
	Wolverhampton	-	-	97.2	1.000	1.000	
	Berwick-upon-Tweed	-	-	97.5	0.000	0.010	chart, classic hits
Borders	Eyemouth	-	-	103.4	0.000	0.500	
	Peebles	-	-	103.1	0.000	0.035	
	Selkirk	-	-	96.8	0.000	5.000	
Boss 603	Cheltenham	603	0.100	-	-	-	classic rock
Breeze	Chelmsford	1359	0.280	-	-	-	easy listening
	Southend	1431	0.350	-	-	-	
	Birmingham	-	-	96.4	5.000	5.000	recent hits
BRMB	Norwich/Gt Yarmouth	-	-	102.4	1.650	1.650	adult contemporary
Broadland							hits, country music
Brunel Classic Gold	Swindon	1161	0.160	-	-	-	
	Bristol	1260	1.600	-	-	-	
	West Wiltshire	936	0.180	-	-	-	
	London	-	-	95.8	2.000	2.000	TA charts hits
Capital FM	London	1548	97.500	-	-	-	oldies
Capital Gold	Stirling	-	-	103.1	0.250	0.250	hits, oldies
Central FM	Fenham	-	-	96.2	0.000	0.050	TA music, speech
Century FM	North East/Bilsdale	-	-	100.7	4.450	4.450	
	North East/Burnhope	-	-	101.8	5.000	5.000	
Ceredigion	Aberystwyth	-	-	103.3	1.200	4.600	community radio stn
	Lampeter	-	-	96.6	0.200	0.200	
CFM	Carlisle	-	-	96.4	0.250	1.000	recent & classic hits
	Penrith	-	-	102.5	0.050	0.050	
	West Cumbria	-	-	103.4	-	-	
	West Cumbria	-	-	102.2	0.315	0.500	
Channel 103 FM	Jersey	-	-	103.7	2.000	2.000	classic hit
Channel Travel	M20/Channel ports	-	-	107.6	-	0.025	travel service
Chiltern FM	Luton/Dunstable	-	-	97.6	0.500	0.500	classic hits
Chiltern Supergold	Luton	828	0.200	-	-	-	oldies
Chiltern SuperG.East	Bedford	792	0.275	-	-	-	oldies
Choice FM	Brixton	-	-	96.9	0.014	0.036	TA soul, dance, reggae
Choice FM B'ham	Birmingham	-	-	102.2	0.000	0.500	soul, dance, reggae
City FM	Liverpool	-	-	96.7	4.100	4.100	pop, rock
City Gold	Liverpool	1548	1.000	-	-	-	classic gold
Classic Gold 1332	Peterborough	1332	0.600	-	-	-	classic gold
Classic Gold 1359	Coventry	1359	0.270	-	-	-	classic gold
Classic Gold 1431	Reading	1431	0.140	-	-	-	classic gold
Classic Gold 828	Bournemouth	828	0.270	-	-	-	classic gold
Clyde 1	Glasgow	-	-	102.5	5.000	10.000	TA recent pop music
	Vale of Leven	-	-	97.0	0.025	0.025	
	Rosneath	-	-	103.3	0.050	0.050	
Clyde 2	Glasgow	1152	3.600	-	-	-	easy listening
Cool FM	Belfast	-	-	97.4	1.300	1.900	TA adult rock, pop
Country 1035	London	1035	1.000	-	-	-	country music
County Sound	Guildford	1476	0.500	-	-	-	changes from FM 96.4/97.1 to MW 1476 in Dec 95
				97.1*	0.025	0.250	ex Mercury-starts Dec 95
Delta Radio*	Haslemere	-	-	96.6	4.100	4.100	TA chart, classic hits
Downtown	Enniskillen	-	-	96.4	1.000	1.000	
	Belfast	1026	1.700	-	-	-	
	Limavady	-	-	96.4	1.000	1.000	
	Londonderry	-	-	102.4	5.000	5.000	

independent local radio

station	coverage area	power kW		FM	power kW		information TA
		MW	emrp		erp h	erp v	
Eagle*	Guildford	-	-	96.4*	1.500	1.500	ex Mercury - due Dec 95
Eleven Seventy	High Wycombe	1170	0.150	-	-	-	easy listening
Essex FM	Chelmsford	-	-	102.6	1.000	1.000	TA recent, classic hits
	Southend	-	-	96.3	0.400	0.630	
FM103 Horizon	Milton Keynes	-	-	103.3	1.000	1.000	adult contemporary
Forth FM	Edinburgh/Black Hill	-	-	97.6	0.000	0.100	chart, classic hits
	Edinburgh/Craigkelly	-	-	97.3	3.000	3.900	
Fortune 1458	Manchester	1458	5.000	-	-	-	easy listening
Fox FM	Banbury	-	-	97.4	0.150	0.150	TA classic hits
	Oxford	-	-	102.6	4.500	4.500	
Galaxy	Severn Estuary	-	-	101.0	20.000	20.000	TA dance, soul, reggae
	Bristol	-	-	97.2	0.000	0.150	
Gem-AM	Derby	945	0.200	-	-	-	classic hits
	Nottingham	999	0.250	-	-	-	
Gemini AM	Exeter	666	0.340	-	-	-	classic hits
	Torbay	954	0.320	-	-	-	
Gemini FM	East Devon	-	-	103.0	0.500	0.500	TA current hits
	Exeter	-	-	97.0	0.500	0.500	
	Torbay	-	-	96.4	0.500	0.500	
GNR	Tyne & Wear	1152	1.800	-	-	-	classic hits
(Great North Radio)	Teeside	1170	0.320	-	-	-	
Gold Radio	Shaftesbury	-	-	97.4	0.025	0.100	classic hits
Great Yorkshire Gold	Barnsley	1305	0.150	-	-	-	classic hits
	Doncaster	990	0.250	-	-	-	
	Humberside	1161	0.350	-	-	-	
	Sheffield/Rotherham	1548	0.740	-	-	-	
	Bradford	1278	0.430	-	-	-	
	Huddersfield/Halifax	1530	0.740	-	-	-	
GWR FM (East)	Swindon	-	-	97.2	0.350	0.350	recent hits, oldies
	Marlborough	-	-	96.5	0.020	0.030	
	West Wilts	-	-	102.2	0.250	0.250	
GWR FM (West)	Bath	-	-	103.0	0.040	0.040	recent hits, oldies
	Bristol	-	-	96.3	1.000	1.000	
Hallam FM	Barnsley	-	-	102.9	0.250	0.250	TA chart, recent hits
	Doncaster	-	-	103.4	0.750	0.750	
	Rotherham	-	-	96.1	0.025	0.025	
	Sheffield	-	-	97.4	0.200	0.200	
Heart 106.2	London	-	-	106.2	2.000	2.000	adult, contemporary
Heart FM	West Midlands	-	-	100.7	5.500	5.500	TA adult, contemporary
Heartland FM	Pitlochry/Aberfeldy	-	-	97.5	0.000	0.115	Scottish, Gaelic
Hereward FM	Peterborough	-	-	102.7	2.000	2.000	recent, classic hits
Invicta FM	Maidstone/Medway	-	-	103.1	2.000	2.000	recent hits
	East Kent/Dover	-	-	97.0	0.250	0.250	
	Canterbury	-	-	102.8	0.500	0.500	
	East Kent/Thanet	-	-	95.9	0.135	0.135	
	Ashford	-	-	96.1	0.125	0.125	
Invicta SuperGold	Maidstone/Medway	1242	0.320	-	-	-	classic hits
	East Kent	603	0.100	-	-	-	
Island FM	Alderney	-	-	93.7	0.000	0.010	classic/tuneful hits
	Guernsey	-	-	104.7	0.250	1.000	
Isle of Wight	Isle of Wight	1242	0.500	-	-	-	recent/classic hits
Jazz FM 100.4	NW England	-	-	100.4	2.500	2.500	TA jazz, blues, soul
Jazz FM 102.2	London	-	-	102.2	1.000	1.000	jazz
KCBC	Kettering	1584	0.045	-	-	-	classic gold
KFM	Tonbridge (South)	-	-	96.2	0.000	0.150	adult contemporary
	Tonbridge (North)*	-	-	101.6*	-	-	
Kiss 102	Manchester	-	-	102.0	0.000	0.500	TA dance
Kiss FM	London	-	-	100.0	1.000	1.000	dance
Kix 96	Coventry	-	-	96.2	0.020	0.080	TA music
KL.FM	Kings Lynn	-	-	96.7	0.500	2.100	recent, classic hits
Lantern	Barnstaple	-	-	96.2	0.500	2.000	gen entertainment
Leicester Sound	Leicester	-	-	103.2	0.200	0.200	recent hits
Lincs FM	Grantham	-	-	96.7	0.000	0.050	TA recent hits
	Lincoln	-	-	102.2	3.200	3.200	
London Greek	London/Haringey	-	-	103.3	0.000	0.050	music and news
London News	London	-	-	97.3	2.000	2.000	news & info
London Newstalk	London	1152	23.500	-	-	-	comment, debate
London Turkish	London/Hackney	1584	0.200	-	-	-	Turkish station
Magic 828	Leeds	828	0.120	-	-	-	oldies



Independent Local Radio



- Independent local stations
- ◆ Regional stations
- London stations

Capital FM	London Newtalk
Capital Gold	London Turkish
Choice FM	Melody
Country 1035	Premier
Heart 106.2	RTM
Jazz FM 102.2	Spectrum
Kiss FM	Sunrise Radio
London Greek Radio	Virgin FM
London News	Viva

Moray Firth

NECR

Heartland

NorthSound 1
NorthSound 2

Nevis Radio

Tay

Central

Clyde 1
Clyde 2

Forth

Max AM

Q96

Scot FM

Borders

West Sound

GNR

Metro

Sun City

South West Sound

Century

CFM

Q102.9
Downtown

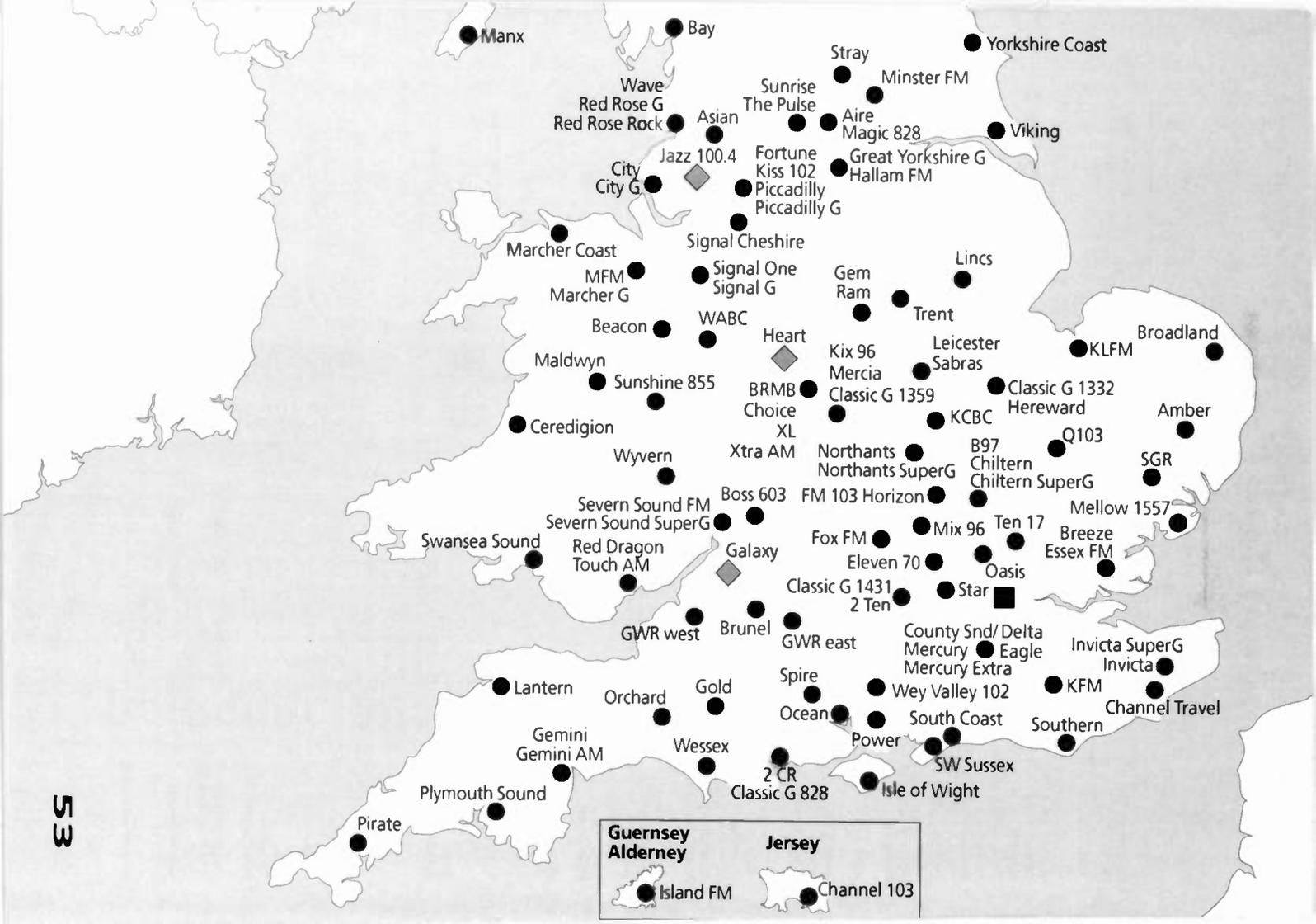
Townland 828

96.7 BCR
Cool
Downtown

Downtown

A1 FM

TFM



independent local radio

station	coverage area	power kW		power kW			information
		MW	emp	FM	erp h	erp v	
Maldwyn Manx	Montgomeryshire	756	0.630	-	-	-	bilingual community general entertainment
	Douglas	-	-	97.2	11.500	11.500	
	Foxdale	1368	20.000	-	-	-	
	Jurby	-	-	103.7	2.000	2.000	
Marcher Coast FM	North Wales	-	-	89.0	1.000	1.000	hits, Welsh progs
	Wrexham/Deeside	1260	0.640	96.3	0.250	1.000	
Marcher Gold	Wrexham/Deeside	-	-	-	-	-	hits, Welsh language
Max AM	Edinburgh	1548	2.200	-	-	-	hits, Scottish music
Mellow 1557	Tending	1557	0.125	-	-	-	adult pop, roc
Melody	London	-	-	105.4	2.000	2.000	easy listening
Mercia FM	Leamington Spa	-	-	102.9	0.025	0.025	recent hits
	Coventry	-	-	97.0	1.000	1.000	
	Horsham	-	-	97.5	0.015	0.015	
Mercury FM	Reigate/Crawley	-	-	102.7	2.200	1.400	current, classic hits
Mercury Extra AM	Reigate/Crawley	1521	0.640	-	-	-	oldies
Metro FM	Tyne & Wear/Burnhope	-	-	97.1	4.000	6.000	TA chart, recent music
	Tyne Valley/Fenham	-	-	103.0	0.000	0.050	
	Deeside	-	-	97.1	0.150	0.150	
MFM	Wrexham	-	-	103.4	0.700	0.700	chart music
Minster FM	York	-	-	104.7	0.500	2.000	hits
Mix 96	Aylesbury	-	-	96.2	0.500	0.500	classic hits
Moray Firth	Inverness	-	-	97.4	1.400	1.400	hits, Scottish music
	Speyside	-	-	96.6	0.225	0.225	
	Inverness	1107	1.500	-	-	-	
NECR	Inverurie	-	-	102.1	0.250	1.000	classic hits
Nevis Radio	Fort William	-	-	96.6	0.150	0.300	community stn
Northants Radio	Northampton	-	-	96.6	2.000	2.000	recent hits
Northants Supergold	Northampton	1557	0.760	-	-	-	TA contemporary hits
	Aberdeen/Durriss	-	-	96.9	0.000	10.000	
	Aberdeen/Balgownie	-	-	97.6	0.000	0.025	
NorthSound One	Peterhead	-	-	103.0	0.000	0.174	classic memories
	Aberdeen	1035	0.780	-	-	-	
	St Albans/Watford	-	-	96.6	0.250	0.250	
Oasis	Winchester	-	-	96.7	0.250	0.250	hits
Ocean FM	Portsmouth	-	-	97.5	0.425	0.425	classic hits
	Yeovil	-	-	97.1	0.200	0.200	
	Somerset	-	-	102.6	2.000	2.000	
Piccadilly Gold	Manchester	1152	1.500	-	-	-	oldies
Piccadilly Key 103	Manchester	-	-	103.0	2.000	2.000	TA chart
Pirate FM	East Cornwall	-	-	102.2	0.500	2.000	recent hits
	West Cornwall	-	-	102.8	2.250	9.000	
Plymouth Sound	Plymouth	1152	0.320	-	-	-	pop, specialist music
	Plymouth	-	-	97.0	1.000	1.250	
	Tavistock	-	-	96.6	0.020	0.020	
Power FM Premier	Southampton	-	-	103.2	1.000	1.000	TA recent hits Christian based station
	London/Battersea	1332	1.000	-	-	-	
	London/Dartford	1413	0.500	-	-	-	
	London/Enfield	1305	0.500	-	-	-	
	London/Heathrow	1413	0.500	-	-	-	
	London/North Looe	1305	0.500	-	-	-	
Pulse FM	Bradford	-	-	97.5	0.250	0.250	TA chart, recent hits
	Huddersf'd/Hfax	-	-	102.5	1.000	1.000	
Q102.9	Londonderry	-	-	102.9	3.000	4.000	current, classic hits
Q103	Newmarket	-	-	97.4	0.000	0.004	recent hits, oldies
	Cambridge	-	-	103.0	0.500	0.500	
Q96	Paisley	-	-	96.3	0.100	0.100	classic hit
Ram FM	Derby	-	-	102.8	0.300	0.300	recent hits
Red Dragon FM	Newport	-	-	97.4	0.250	0.250	chart, classic hits
	Cardiff	-	-	103.2	1.000	1.000	
Red Rose Gold	Preston/Blackpool	999	0.800	-	-	-	classic gold
Red Rose Rock FM	Preston/Blackpool	-	-	97.4	1.000	1.000	current, 80s pop, rock
RTM	Thamesmead	-	-	103.8	0.000	0.160	music, info
Sabras Sound	Leicester	1260	0.290	-	-	-	Asian station
Scot FM	Central Scot/Black Hill	-	-	100.3	10.000	10.000	TA adult contemporary
	Central Scot/Craigkelly	-	-	101.1	5.000	5.000	
	Gloucester/Cheltenham	-	-	102.4	1.000	1.000	
Severn Sound FM	Stroud	-	-	103.0	0.050	0.050	recent hits

independent local radio

station	coverage area	power kW		FM	power kW		information
		MW	emp		erp h	erp v	
Severn Sound Supergold	Gloucester/Cheltenham	774	0.140	-	-	-	oldies
SGR (Colchester)	Colchester	-	-	96.1	0.250	0.250	adult recent music
SGR FM (Bury)	Bury St. Edmunds	-	-	96.4	1.000	1.000	adult recent music
SGR FM (Ipswich)	Ipswich	-	-	97.1	1.400	2.000	adult recent music
SIBC	Shetland Islands/Bressay	-	-	96.2	0.000	4.000	music, country music
	Shetland Islands/Lerwick	-	-	102.2	0.000	0.025	
Signal Cheshire	Stockport	-	-	104.9	0.000	0.050	current music
	Congleton	-	-	96.4	0.125	0.125	
Signal Gold	Stoke on Trent	1170	0.200	-	-	-	oldies
Signal One	Stoke on Trent	-	-	102.6	2.000	2.000	recent, classic hits
	Stafford	-	-	96.9	0.100	0.100	
South Coast (B'ton)	Brighton	1323	0.500	-	-	-	oldies, easy listening
South Coast (P'tsmth)	Portsmouth	1170	0.120	-	-	-	
	Southampton	1557	0.500	-	-	-	
South West Sound	Dumfries	-	-	97.2	0.000	1.000	classic/chart
South West Sussex*	Chichester	-	-	96.6*	0.500	0.500	FM stn due 1996
	Littlehampton	-	-	102.3*	0.250	0.250	
Southern FM	Hastings	-	-	102.0	0.100	0.100	classic hits
	Eastbourne	-	-	102.4	4.100	4.100	
	Newhaven	-	-	96.9	0.050	0.050	
	Brighton	-	-	103.5	0.450	0.450	
Spectrum	London	558	1.000	-	-	-	music, ethnic info
Spire FM	Salisbury	-	-	102.0	0.250	1.000	classic hits
Star FM	Slough	-	-	101.6	0.125	0.125	mellow adult mix
Stray FM	Harrogate	-	-	97.2	0.050	0.500	
Sun City	Sunderland	-	-	103.4	0.000	0.080	classic hits
Sunrise FM	Bradford	-	-	103.2	0.200	0.200	Asian, Afro-Carb.
Sunrise Radio	London	1458	125.000	-	-	-	Asian, ethnic
Sunshine 855	Ludlow	855	0.150	-	-	-	melodic pop
Swansea Sound	Swansea	-	-	96.4	0.125	0.500	hits, oldies
Tay	Swansea	1170	0.580	-	-	-	
	Dundee	-	-	102.8	1.000	4.250	chart, hits, Scottish
	Perth	1584	0.210	-	-	-	
	Dundee	1161	1.400	-	-	-	
	Perth	-	-	96.4	0.500	0.300	
Ten 17	Harlow	-	-	101.7	0.050	0.050	TA recent hits, oldies
TFM	Teesside	-	-	96.6	4.450	4.450	TA chart, recent music
Touch AM	Newport	1305	0.200	-	-	-	classic hits
	Cardiff	1359	0.200	-	-	-	
Townland 828	Mid Ulster/Cookstown	828	0.080	-	-	-	
Trent FM	Mansfield	-	-	96.5	0.000	0.050	recent hits
	Nottingham	-	-	96.2	0.500	0.500	
Viking FM	Humberside	-	-	96.9	5.000	5.000	TA chart, recent
Virgin FM	London	-	-	105.8	2.000	2.000	pop, rock
Viva	London	963	1.000	-	-	-	music, female-orientated station
		-	-	-	-	-	easy listening
WA8C	Wolverhampton	990	0.090	-	-	-	
	Shrewsbury/Telford	1017	0.630	-	-	-	
Wave	Blackpool	-	-	96.5	0.050	0.050	TA contemporary music
Wessex FM	Dorchester/Weymouth	-	-	97.2	0.125	0.500	classic hits
	Bridport/West Dorset	-	-	96.0	0.012	0.050	
West Sound	Ayr/Darvel	-	-	96.7	1.100	1.100	classic, chart
	Ayr/Girvan	-	-	97.5	0.075	0.075	
	Ayr	1035	0.320	-	-	-	
Wey Valley 102	Alton (Hants)	-	-	102.0	0.045	0.045	classic hits
	Alton/Four Marks	-	-	101.6	0.012	0.025	
Wyvern	Hereford	954	0.160	-	-	-	classic rock, pop, soul
	Worcester	1530	0.520	-	-	-	
	Worcester	-	-	102.8	0.500	0.500	
	Hereford	-	-	97.6	0.400	0.400	
XL	Birmingham	1296	10.000	-	-	-	Asian music
Xtra-AM	Birmingham	1152	3.000	-	-	-	classic hits
Yorkshire Coast	Scarborough	-	-	96.2	0.125	0.500	classic hits
	Whitby	-	-	103.1	0.040	0.040	

* stations, transmitters or frequencies marked with an asterisk (*) are proposed, but are not yet in service

The satellite radio scene

Alan Beech

The concept of television from space has been with us now for well over five years, and so has satellite radio. Satellite radio is unlikely to ever become a mass market medium in its present form of technology.

People like to have their radios in the kitchen, in the garden, in the car or any where else they care to take it. This is the big drawback to radio from space, it has to be fixed to a dish and mains supply. However, if you are happy to sit in the living room to listen to superb quality radio reception from around the Globe, then satellite radio is for you.

It is sad, but many of the early pioneering attempts to run individual and unique stations on satellite failed in a big way, something which will surely discourage others from trying.

It is the existing national and international broadcasters who are now dominating the satellite market, with the smaller independent stations being squeezed out. This last 12 months have seen stations such as Radio Canada International, Radio Netherlands, RTE from Dublin taking to pan-European coverage.

However, the emerging digital technology will hopefully reduce the operating costs of smaller stations and we may see some exciting developments in this area.

Already we have seen Music Choice Europe and Digital Music Express launch multi-channel (approx. 50 services each) formatted music channels on a subscription basis. MC-Europe aptly refer to themselves as the Worlds largest juke box. I have no doubt these kind of services will prove popular to people who want to hear a specific type of music, such as Jazz or Blues.

Europe's leading satellite operator, Astra, has now launched its Astra Digital Radio (ADR) format, which, although currently featuring only German stations, is available across the continent to those with suitable receivers. Satellite enthusiasts will know that the Germans have been broadcasting digital radio from satellite for five years: a fact the BBC seemed to forget to mention during their well publicised launch of terrestrial DAB.

Today the sounds of satellite are dominated by terrestrial broadcasters, such as Virgin, the BBC, and other continental state broadcasters who see it as an ideal medium to reach ex-pat audiences overseas. There are only three UK originated privately owned stations: namely United Christian Broadcasting (UCB), Country Music Radio (CMR) and the World Radio Network (WRN)

The World Radio Network.

The first trial transmissions of this station went out in late 1992. By using the latest technology for reception, and by timeshifting (ie. recording and playing back at an appropriate time) the station was able to provide a continuous output of English language programmes, cut into 30 or 60 minute slots.

When the station finally took to the air, in the Autumn of 1993, it had assembled a fully automated studio suite. Under computer control, programmes are obtained from around the world. Once the stations computers has gathered the programmes, they are broadcast by more computers, which add in WRN's own announcements, which are themselves stored on hard disk.

Human intervention is only needed for recording the stations announcements, and programming up the required schedule of programmes, days, or weeks in advance.

The station has been overwhelmed by its success. World Radio Network currently relays the output of 25 world broadcasters, all in English Language, 24 hours a day. It has recently added a second service tailored specifically for North America, and is planning a to launch a third service to Australasia. The station is also formatting plans to launch additional services, totally in German, French and Spanish.

As part of its promotion campaign, the service ran a RSL for 28 days in London during 1995. It can also be heard on a growing number of cable networks, as well as selected programmes appearing on various terrestrial outlets. Maintaining its leading edge technology image, the station is now on the Internet. Not only can you find up-to-date program schedule and listeners mailboxes, but you can download real programmes via your modem and listen to them through your computer, anywhere in the World. Happy listening. ▲

Further info from:- The European Satellite User Group, PO Box 576, Orpington, Kent BR6 9WY. Tel: 01227 265222. Fax:-01689 602009. World Radio Network, 10 Wyyil Road, London, SW8 2TG. Tel:-0171 896 9000.

satellite stations

Astra 19.2 degrees east

Station	TV Freq	Channel	Audio Freqs	Programme Content
Asda FM	11.171H	47	7.56	Supermarket music(m)
BBC Radio 1	10.979V	34	7.38, 7.56	Pop music(s)
BBC Radio 2	11.552H	23	7.74	General music & ent(m)
BBC Radio 3	10.979V	34	7.74, 7.92	Classical(s)
BBC Radio 4	11.552H	23	7.56	Culture & information(m)
BBC Radio 5 Live	11.552H	23	7.92	Information(m)
BBC World Service	11.552H	23	7.38	As short wave(m)
CNN Radio	11.627V	27	7.92	News reports, not 24 hrs(m)
Deutsche Welle(E)	11.229V	2	7.74	German news and info(m)
Deutschland Funk	11.347V	10	7.74, 7.92	News and information(s)
Irish Sat. Radio	11.538V	22	7.92	General music(m)
Radio Flanders	10.921H	63	7.38	Music & info
RTE Radio	11.538V	22	7.56	Irish news and music(m)
RTL Radio	11.391H	13	7.38, 7.56	Music, oldies(s)
Sky Radio	11.318V	8	7.38, 7.56	Dutch news & soft pop(s)
StarSat	11.406V	14	7.38, 7.56	CD only Pop music (s)
Sunrise Radio	11.479V	18	7.38	Music news, info, Asian(m)
Super Gold	11.171H	47	7.38	Classical oldies(m)
UCB	11.509V	20	7.56	Easy listening & religion(m)
Virgin 1215	11.377V	12	7.38, 7.56	Pop music(s)
World Radio Network	11.538V	22	7.38	World news

Eutelsat 2 FL 13 degrees east

BBC External	10.987V	25	7.56	Information and news(m)
BBC World Service	10.987V	25	7.38	Information and news(m)
Radio Montmartre	10.987V	25	6.30	Gen. ent and info(m)
France Info	11.321V	26	7.20	Gen. info, news and music(m)
France Inter	11.321V	26	7.38	Gen. info, news and music(m)
France Culture	11.321V	26	7.56	Cultural(m)
Swiss Radio Int	11.080V	26	7.74	Gen. info and ent(m)
Deutsche Welle	11.163V	27	7.74, 7.92, 8.28	Foreign language progs(m)
Voice of America	11.163V	27	7.38, 7.56	Pop and information(s)
Radio Finland	11.163V	27	8.10	General music(m)
Radio Vatican	11.554H	32	7.74	Religious(m)
WRN2	11.554V	-	7.74	News

(s) Stereo
(m) Mono

Information kindly supplied by TESUG - The European Satellite User Group. See the *Useful Information* section of the guide for further information about TESUG.

The above list is by no means comprehensive. For further information about satellite frequencies and programmes see *Satellite Times* (available from newsagents).

Thanks to Eric Wiltsher and Adrian Pickering for their help in compiling this section.

the World Service

The BBC World Service broadcasts 24 hours a day to 130 million people around the world; 37 million of that audience tune in to the global English service.

The cornerstone of its reputation is news and current affairs output, and there is a news bulletin or summary every hour on the hour during the week. The running order of these bulletins reflect the importance of the day's main news stories worldwide. There is a wide range of other current affairs programmes that examine international issues as well as looking at the stories that are of interest in Britain.

World Service programmes also cover an immense range of other subjects: there are current affairs programmes, features and talks. Sport is also a key ingredient, with regular commentaries and summaries on the big events in the sporting calendar worldwide. Music lovers can enjoy the huge choice of programmes from a classical schedule that includes Composer of the Month as well as pop, rock, jazz, folk and country. An extensive drama output includes play of the week, comedy and some of the classic favourites.

All World Service Schedules are in GMT.

The World Service is also available on the Astra satellite.

Medium wave

Transmissions from Orfordness in Suffolk on **648kHz (BBC for Europe)** can be heard from 0000-0430, 0500-1130, 1200-1615, 1800-1830, 2000-2400 GMT (with some alteration possible during British Summer Time). **1296kHz** carries the English service from 0700-0730 GMT.

These can be received strongly in parts of East Anglia, London, Kent and East Sussex, and to a lesser extent in the rest of South East England and other parts of the country.

Long wave

The World Service broadcasts on 198kHz from the Droitwich transmitter can be heard between 0100-0600 GMT. These can be received over a wide area of the UK.

Short wave

The English Language BBC World Service is transmitted mainly on the Short wave band and is intended for listeners abroad, however reception is possible in some parts of the UK.

You should remember that the quality of SW reception can be variable. Transmissions change frequency throughout the day.

Generally lower frequencies give best results early in the morning and late at night, higher ones in the middle of the day.

Frequencies in kHz

9410, 6195

Details of world service programmes are published in Radio Times and many newspapers.

For a detailed timetable of World Service frequencies and broadcasts, a copy of the BBC's monthly magazine 'Worldwide' should be obtained. It is on sale at newsagents and by subscription.

Subscriptions: PO Box 76S, Bush House, Strand, London WC2B4PH
Tel: 0171 257 2211

Two useful leaflets about the World Service are, 'Taking Your Radio Abroad' and 'Receiving London'. Both can be obtained by sending a stamped and self-addressed envelope to:

*BBC Engineering Information, Villiers House,
The Broadway, Ealing, London W52PA
Telephone 0345 010 313 (local call rate).*

foreign stations

IN this section you will find a selection of stations that we have found to transmit regularly, relatively clearly and in English, on the medium and short wave bands. Publications such as the World Radio and TV Handbook provide full listings of short wave. Times listed are GMT.

AFN (American Forces Network) Broadcast from Germany AFN can be heard in various parts of the country on 873kHz (Frankfurt 150 kW transmitter). After closedown it broadcasts American Public Radio.

Trans World Radio Broadcasts during the morning are on shortwave 7110 kHz, and during the evening on 1395 and 1467 kHz. Contact PO Box 1020 Bristol BS99 1XS.

AMERICA Voice of America The VOA shortwave transmissions to Europe on short wave cease at the end of November 1995. In the UK VOA is targeting listeners via satellite (Eutelsat), by cable and by programme feeds to other broadcasters.

AUSTRIA Radio Austria International 25 minute broadcasts in English can be received only on shortwave, at the following times: 0530 and 0830hrs on 6155 & 13730 kHz; 1030, 1230 and 1530hrs on 6155 & 13730, and at 1930 on 6155 & 5945 kHz.

BELGIUM Brussels Calling On 1512 kHz. Daily at 0630, 1800, and 2100hrs. Mon - Sat at 0900hrs, Mon - Sat at 1300hrs.

FINLAND Radio Finland 963kHz at 0745, 1930 and 2230 hrs

GERMANY Deutsche Welle English Language broadcasts on shortwave 5960 and 7285 kHz, 2000-2050hrs 7 nights a week. Deutsche Welle also on Astra and Eutelsat. (See satellite section of the guide). For a copy of their quarterly magazine 'Time in' contact: Deutsche Welle, D-50588, Cologne, Germany.

LUXEMBOURG Der Oldies Sender

1440 kHz 0400-2200. German service from RTL. Powerful signal, good oldies, poor presentation.

THE NETHERLANDS Radio Netherlands Transmissions 2-3 hours long. Programmes on the following frequencies. Starting at 1130hrs on 6045, 1530hrs on 9895 and 15150 kHz, 2130hrs on 1386 kHz.

Veronica Hitradio Broadcasts on 1224 kHz. Not strictly English broadcasts but good reception if you're not too close to a Virgin 1215 kHz transmitter.

Radio Tien (10) Gold Broadcasts on 675 kHz, 50's, 60's, 70's and 80's music. Good reception over much of the country.

NORWAY Radio Norway International Half hour programme in English every Sunday. Short wave only. Try the following frequencies and times: Sundays 1000hrs on 11860 and 15165kHz, 1300hrs on 9590kHz, 1800hrs on 7120kHz and 1900hrs on 5690 and 9590kHz.

NRK Clearly in the evenings over most of the UK on 1314 kHz.

RUSSIA Voice of Russia Currently on 1323 kHz 0500-0900hrs and 1494kHz 1800-2200hrs.

SWEDEN Radio Sweden On 1179kHz 1715-1745hrs and 2230-2300hrs. In stereo on the Astra satellite.

SWITZERLAND Swiss Radio English broadcasts daily at 1100hrs on 6165 and 9535 kHz

THE VATICAN Vatican Radio Programmes 0600-0620hrs and 2050-2110hrs on 1530 kHz and 3945 kHz.

Thanks to David Duckworth for his help in compiling this section.

student radio

Student radio is growing. The increasing number of stations are now represented by the Student Radio Association. Susanne Cuff, its chair, is willing to answer any queries you may have about the SRA, and can put you in touch with SRA stations. She can be contacted at Redwood, Gore Road, Bredgar, Sittingbourne, Kent ME9 8EP. Tel 01622 884418. Alternatively E Mail the SRA at sra@bradford.ac.uk

Increasingly many student stations are choosing to take out two Restricted Service Licences a year. This allows them to broadcast to a far wider audience for up to twenty-eight days in each licence period. You will need to contact the station involved for full details of the frequencies involved.

STATION	FREQ (KHZ)	STATION	FREQ (KHZ)	STATION	FREQ (KHZ)
Univ R (Bath)	963	CRUSH FM/AM (Herts)	999	Univ R (Nottingham)	1602
Ramair (Bradford)	945	Univ R (Hull)	1602	Univ R Glen(Southampton)	963
B-1000 (Brunel)	999	ICR (Imperial College)	999	Radio Airthrey (Stirling)	963
Cambridge Univ R	945	KUBE (Keele)	RSL	Surrey	1602
C4 Radio (Christchurch)	999	UKC Radio (Kent)	999	Univ R Falmer (Sussex)	999
Edinburgh FreshAir	105.4	RSL Univ R Bailrigg (Lancaster)	963	Shreek Radio (Swansea)	963
Univ R (Essex)	999	Network FM (Leeds)	963	Wakefield	945
Univ R (Exeter)	963	Loughborough Campus R	963	W963 (Warwick)	963
Sweet FM (Glasgow)	nk	Livewire (Norwich)	945	Univ R (York)	999

cable stations

Station	Information
BUBN	Birmingham based hospital & healthcare service. Tel: 0121 554 5522
CRMK	Community Radio Milton Keynes. Local community cable radio station For further information Tel: 01908 265266
Cruise FM	Music in Andover, Salisbury and Romsey Tel: 01234 335533
Eclipse FM	Community radio for London Boroughs of Sutton, Croydon, Kingston, Merton and Richmond. On United Artists Cable Network. Tel: 0181 395 3388
Fashion FM	In-store radio service. For further information Tel: 0171 927 0226
Music Choice Europe	Tel: 0171 724 9494
Radio Phoenix	Hospital radio service for Neath. Tel: 01639 641161
Radio Victory	News and info. Based in Hampshire. Tel: 01705 694377

phone numbers and addresses

BBC main switchboard	0171 580 4468
BBC Radio Information Office (Gives info about BBC Radio)	No direct number. Transfer via the main switchboard.
BBC Engineering Information Villiers House, The Broadway Ealing, London W5 2PA	0345 010313 (local call rate) or 0181 231 9191
BBC Scotland	0141 330 2345
BBC Wales	01222 572255
BBC Northern Ireland	01232 338000

Radio Authority	Holbrook House, 14 Great Queen Street, Holborn, London WC2B 5DG - tel 0171 4302724
Classic FM	Academic House, 24-28 Oval Road, London NW1 7DQ - tel 0171 284 3000
Virgin Radio	1 Golden Square, London W1R 4DJ - tel 0171 434 1215
Talk Radio UK	76 Oxford Street, London W1N 0TR - tel 0171 636 1089
Atlantic 252	Mornington House, Summerhill Road, Trim, Co Meath IRELAND. 00 353 46 36644

BBC local radio stations

Berkshire	BBC Radio Berkshire, Portman Road, Reading, Berks RG3 1NB - tel 01734 567056
Bristol	BBC Radio Bristol, PO Box 194, Bristol BS99 7QT - tel 01179 741111
Cambridgeshire	BBC Radio Cambridgeshire, Broadcasting House, 104 Hills Road, Cambridge CB2 1LD - tel 01223 259696
Cleveland	BBC Radio Cleveland, PO Box 95FM, Newport Road, Middlesbrough TS1 5DG - tel 01642 225211
Cornwall	BBC Radio Cornwall, Phoenix Wharf, Truro, Cornwall TR1 1UA - tel 01872 75421
Coventry/Warcks	BBC Radio Coventry & Warwickshire, 25 Warwick Road, Coventry CV1 2WR - tel 01203 559911
Cumbria	BBC Radio Cumbria, Annetwell Street, Carlisle CA3 8BB - tel 01228 592444
Derby	BBC Radio Derby, PO Box 269, Derby DE1 3H1 - tel 01332 361111
Devon	BBC Radio Devon, PO Box 5, Broadcasting House, Seymour Road, Mannamead, Plymouth PL1 1XT - tel 01752 260323
Dorset	Dorset FM, Portfolio House, Princes Street, Dorchester DT1 1TP - tel 01305 269654
Essex	BBC Essex, 198 New London Road, Chelmsford, Essex CM2 9AB - tel 01245 262393
Gloucestershire	BBC Radio Gloucestershire, London Road, Gloucester GL1 1SW - tel 01452 308585
GLR	BBC GLR, 35c Marylebone High Street, London W1A 4LG - tel 0171 224 2424
GMR	BBC GMR, PO Box 951, Oxford Road, Manchester M60 1SD - tel 0161 200 2000
Guernsey	BBC Radio Guernsey, Commerce House, Les Banques, St. Peter Port, Guernsey C1 - tel 01481 728977
Hereford & Worcs	BBC Hereford & Worcester, Hylton Road, Worcester WR2 5WW - tel 01905 748485
Humberside	BBC Radio Humberside, 9 Chapel Street, Hull HU1 3NU - tel 01482 323232
Jersey	BBC Radio Jersey, 18 Parade Road, St. Helier, Jersey C1 - tel 01534 870000
Kent	BBC Radio Kent, Sun Pier, Chatham, Kent ME4 4EZ - tel 01634 830505
Lancashire	BBC Radio Lancashire, 26 Darwen Street, Blackburn, Lancs BB2 2EA - tel 01254 262411
Leeds	BBC Radio Leeds, Broadcasting House, Woodhouse Lane, Leeds LS2 9PN - tel 0113 244 2131
Leicester	BBC Radio Leicester, Epic House, Charles Street, Leicester LE1 3SH - tel 0116 251 6688
Lincolnshire	BBC Radio Lincolnshire, PO Box 219, Newport, Lincoln LN1 3XY - tel 01522 511411
Merseyside	BBC Radio Merseyside, 55 Paradise Street, Liverpool L1 3BP - tel 0151 708 5500
Newcastle	BBC Radio Newcastle, Broadcasting Centre, Barrack Road, Newcastle upon Tyne NE99 1RN - tel 0191 232 4141
Norfolk	BBC Radio Norfolk, Norfolk Tower, Surrey Street, Norwich NR1 3PA - tel 01603 617411
Northampton	BBC Radio Northampton, Broadcasting House, Abington Street, Northampton NN1 2BE - tel 01604 239100
Nottingham	BBC Radio Nottingham, York House, Mansfield Road, Nottingham NG1 3JB - tel 0115 955 0500
Oxford	BBC Radio Oxford, 269 Banbury Road, Oxford OX2 7DW - tel 01865 311444
SCR	BBC Southern Counties Radio, Broadcasting Centre, Guildford GU2 5AP - tel 01483 306306
Sheffield	BBC Radio Sheffield, Ashdell Grove, 60 Westbourne Road, Sheffield S10 2QU - tel 0114 268 6185
Shropshire	BBC Radio Shropshire, 2-4 Boscobel Drive, Shrewsbury SY1 3TT - tel 01743 248484
Solent	BBC Radio Solent, Broadcasting House, Havelock Road, Southampton SO14 7PW - tel 01703 631311
Somerset Sound	BBC Somerset Sound, 14/15 Paul Street, Taunton TA1 3PF - tel 01823 252437
Stoke	BBC Radio Stoke, Cheapside, Hanley, Stoke-on-Trent ST1 1JJ - tel 01782 208080
Suffolk	BBC Radio Suffolk, Broadcasting House, St. Matthews Street, Ipswich IP1 3EP - tel 01473 250000
Three Counties	BBC Three Counties Radio, PO Box 3CR, Luton, Bedfordshire LU1 5XL - tel 01582 411000
Wiltshire	BBC Wiltshire Sound, Broadcasting House, Prospect Place, Swindon SN1 3RW - tel 01793 513 626
WM	BBC Radio WM, Pebble Mill Road, Birmingham B5 7SD - tel 0121 414 8484
York	BBC Radio York, 20 Bootham Row, York YO3 7BR - tel 01904 641351

independent local stations - tel numbers and addresses

- 2 Ten FM
2 Ten FM, PO Box 210, Reading, Berks RG31 7RZ - tel 01734 254400
- 2CR FM
2CR FM, 5 Southcote Road, Bournemouth, Dorset BH1 3LR - tel 01202 294881
- 96.7 BCR
96.7 BCR, Russell Court Building, Claremont Street, Lisburn Road, Belfast BT9 6JX - tel 01232 438500
- A1 FM
A1 FM Ltd, Radio House, 11 Woodland Road, Darlington, Co Durham DL3 7BJ - tel 01325 381032
- Aire FM
Radio Aire FM, PO Box 2000, 51 Burley Road, Leeds LS3 1LR - tel 0113 2452299
- Amber
Amber, Radio House, Alpha Business Park, White House Road, Ipswich, Suffolk IP1 5LT - tel 01473 461000
- Asian Sound
Asian Sound Radio, 11 Dean Court, Queensway, Rochdale OL11 1TX - tel 0161 8397775
- B97 Chiltern FM
B97 Chiltern FM, Broadcast Centre, Goldington Road, Bedford, Beds MK40 3LS - tel 01234 272400
- Bay
The Bay, PO Box 969, St George's Quay, Lancaster LA1 3LD - tel 01524 848747
- Beacon
Beacon Radio, 267 Tettenthall Road, Wolverhampton WV6 0DQ - tel 01902 838383
- Borders
Radio Borders, Tweedside Park, Galashiels TD1 3TD - tel 01896 759444
- Boss 603
Boss 603 Radio, Churchill Studios, Churchill Road, Cheltenham, Gloucestershire GL53 7EP - tel 01242 255023
- Breeze
Breeze, Radio House, Clifftown Road, Southend On Sea, Essex SS1 1SX - tel 01702 333711
- BRMB
96.4 FM BRMB, Radio House, Aston Road North, Birmingham B6 4BX - tel 0121 359 4481
- Broadland
Radio Broadland, St George's Plain, 47-49 Colegate, Norwich NR3 1DB - tel 01603 630621
- Brunel
Brunel Class Gold, Brunel Classic Gold Wilts, PO Box 2020, Swindon SN4 7EX - tel 01793 440301
- Capital
Capital Radio, Euston Tower, Euston Road, London NW1 3DR - tel 0171 608 6080
- Central FM
Central FM, Stirling Enterprise Park, Kerse Road, Stirling FK7 7YJ - tel 01786 451188
- Century FM
Century Radio, Century House, PO Box 100, Gateshead NE8 2YY - tel 0191 477 6666
- Ceredigion
Radio Ceredigion, Yr Hen Ysgol Cymraeg, Ffordd Alexandra, Aberystwyth, Dyfed SY23 1LF - tel 01970 627999
- CFM
CFM, PO Box 964, Carlisle CA1 3NG - tel 01228 818964
- Channel 103 FM
Channel 103 FM, 6 Tunnel Street, St Helier, Jersey JE2 4LU - tel 01534 888103
- Channel Travel
Channel Travel Radio, PO Box, 2000, Folkestone, Kent CT18 8XY - tel 01303 272 222
- Chiltern FM
Chiltern FM, Broadcast Centre, Chiltern Road, Dunstable, Beds LU6 1HQ - tel 01582 666001
- Chiltern SG
Chiltern Radio SuperGold, Broadcast Centre, Chiltern Road, Dunstable, Beds LU6 1HQ - tel 01582 666001
- Chiltern SGEast
Chiltern Radio SuperGold East, Broadcast Centre, Goldington Road, Bedford, Beds MK40 3LS - tel 01234 272400
- Choice FM
Choice FM, 16-18 Trinity Gardens, London SW9 8DP - tel 0171 738 7969
- Choice FM B'ham
Choice FM - Birmingham, 95 Broad Street, Birmingham B15 1AU - tel 0121 616 1000
- City Radio
City Radio, 8/10 Stanley Street, Liverpool L1 6AF - tel 0151 227 5100
- Classic G 1332
Classic Gold 1332, PO Box 2020, Queensgate Centre, Peterborough PE1 1LL - tel 01733 460460
- Classic G 1359
Classic Gold 1359, Hertford Place, Coventry CV1 3TT - tel 01203 868200
- Classic G 1431
Classic Gold 1431, PO Box 210, Reading, Berks RG31 7RZ - tel 01734 254400
- Classic G 828
Classic Gold 828, 5 Southcote Road, Bournemouth, Dorset BH1 3LR - tel 01202 294881
- Clyde 1 and 2
Clyde 1, Clydebank Business Park, Clydebank, Glasgow G81 2RX - tel 0141 306 2200
- Cool FM
Cool FM, PO Box 974, Belfast BT1 1RT - tel 01247 817181
- Country 1035
Country 1035, Unit 7 Hurlingham Business Park, Sullivan Road, Fulham SW6 3DU - tel 0171 384 1175
- Downtown Radio
Downtown Radio, Newtownards, Co Down, Northern Ireland BT23 4ES - tel 01247 815555
- Eleven Seventy
Eleven Seventy AM, PO Box 1170, High Wycombe, Bucks HP13 6YT - tel 01494 446611
- Essex FM
Essex FM, Radio House, Clifftown Road, Southend on Sea, Essex SS1 1SX - tel 01702 333711
- FM 103 Horizon
FM 103 Horizon Radio, Broadcast Centre, Crownhill, Milton Keynes, Bucks MK8 0AB - tel 01908 269111
- Forth FM
Forth FM, Forth House, Forth Street, Edinburgh EH1 3LF - tel 0131 556 9255
- Fortune 1458
Fortune 1458, PO Box 1458, Quay West, Trafford Park, Manchester M17 1FL - tel 0161 872 1458
- Fox FM
Fox FM, Brush House, Pony Road, Oxford OX4 2XR - tel 01865 748787
- Galaxy
Galaxy Radio, The Broadcast Centre, Portland Square, Bristol BS1 8RZ - tel 0117 924 0111
- Gem AM
Gem AM, 29-31 Castle Gate, Nottingham NG1 7AP - tel 0115 952 7000
- Gemini AM & FM
Gemini, Hawthorn House, Exeter Business Park, Exeter, Devon EX1 3QS - tel 01392 444444
- GNR
Great North Radio, Newcastle-upon-Tyne NE99 1BB - tel 0191 420 3040
- Gold Radio
Gold Radio, Longmead, Shaftesbury, Dorset SP7 8QQ - tel 01747 855711
- Great Yorkshire
Great Yorkshire Gold, Radio House, 900 Herries Road, Sheffield S6 1RH - tel 0114 285 2121
- GWR-East
GWR-East, PO Box 2000, Swindon SN4 7EX - tel 01793 440300
- GWR-West
GWR-West, PO Box 2000, Bristol BS99 7SN - tel 0117 984 3200
- Hallam FM
Hallam FM, Radio House, 900 Herries Road, Sheffield S6 1RH - tel 0114 285 3333
- Heart 106.2
Heart 106.2, The Chrysalis Building, Bramley Road, London W10 6SP - tel 0171 468 1062

independent local stations - tel numbers and addresses

Heart FM	Heart FM, 1 The Square, 111 Broad Street, Birmingham B15 1AS - tel 0121 626 1007
Heartland FM	Heartland FM, Atholl Curling Rink, Lower Oakfield, Pitlochry PH16 5DS - tel 01796 474040
Hereward	Hereward FM, PO Box 225, Queensgate Centre, Peterborough PE1 1XJ - tel 01733 460460
Invicta	Invicta Radio, Radio House, John Wilson Business Park, Whitstable, Kent CT5 3QX - tel 01227 772004
Island FM	Island FM, 12 Westerbroke, St Sampson, Guernsey GY2 4QQ - tel 01481 42000
Isle of Wight	Isle of Wight Radio, Dodnor Park, Newport, Isle of Wight PO30 5XE - tel 01983 822557
Jazz FM 100.4	Jazz FM 100.4, The World Trade Centre, Exchange Quay, Manchester M5 3EJ - tel 0161 877 1004
Jazz FM 102.2	Jazz FM 102.2, 26-27 Castlereagh Street, London W1H 6DJ - tel 0171 706 4100
KCBC	KCBC, PO Box 1584, Robinson Close, Telford Industrial Estate, Kettering, Northants NN16 8PU - tel 01536 412413
KFM	KFM, 1 East Street, Tonbridge, Kent TN9 1AR - tel 01732 369200
Kiss FM	Kiss 100 FM, Kiss House, 80 Holloway Road, London N7 8JG - tel 0171 700 6100
Kiss 102	Kiss 102, Kiss House, PO Box 102, Manchester, M60 1GJ - tel 0161 228 0102
Kix 96	Kix 96, Ringway house, Hill Street, Coventry CV1 4AN - tel 01203 525656
KLFM	KLFM 96.7, 18 Blackfriars Street, Kings Lynn, Norfolk PE30 1NN - tel 01553 772777
Lantern	Lantern Radio, The Light House, 17 Market Place, Bideford, North Devon EX39 2DR - tel 01237 424444
Leicester Sound	Leicester Sound, Granville House, Granville Road, Leicester LE1 7RW - tel 0116 256 1300
Lincs FM	Lincs FM, Witham Park, Waterside South, Lincoln LN5 7JN - tel 01522 549900
London Greek	London Greek Radio, Florentia Village, Vale Road, London N4 1TD - tel 0181 800 8001
London	London News or News Talk, 72 Hammersmith Road, London W14 8YE - tel 0171 973 1152
London Turkish	London Turkish Radio LTR, 185b High Road, Wood Green, London N22 6BA - tel 0181 881 0606
Magic 828	Magic 828, PO Box 2000, 51 Burley Road, Leeds LS3 1LR - tel 0113 2452299
Maldwyn	Radio Maldwyn, The Studios, The Park, Newtown, Powys SY16 2NZ - tel 01686 623555
Manx	Manx Radio, PO Box 1368, Broadcasting House, Douglas Head, Douglas IOM - tel 01624 661411
Marcher Coast FM	Coast FM, The Studios, 41 Conway Road, Colwyn Bay, Clwyd - tel 01492 534555
Marcher Gold	Marcher Gold, The Studios, Mold Road, Wrexham, Clwyd LL11 4AF - tel 01978 752202
Max AM	Max AM, Fourth House, Forth Street, Edinburgh EH1 3LF - tel 0131 556 9255
Mellow 1557	Mellow 1557, 21-23 Walton Road, Frinton-on-Sea, Essex CO13 0AA - tel 01255 675303
Melody FM	Melody FM, 180 Brompton Road, London SW3 1HF - tel 0171 581 1054
Mercia FM	Mercia FM, Hertford Place, Coventry CV1 3TT - tel 01203 868200
Mercury	Mercury, Broadfield House, Brighton Road, Crawley, W Sussex RH11 9TT - tel 01293 519161
Mercury FM West	Radio Mercury FM West, The Friary, PO Box 964, Guildford, Surrey - tel 01483 451964
Metro FM	Metro FM, Newcastle Upon Tyne NE99 1BB - tel 0191 420 0971
MFM	MFM, The Studios, Mold Road, Wrexham, Clwyd LL11 4AF - tel 01978 752202
Minster FM	Minster FM, PO Box 123, Dunnington, York YO1 5ZX - tel 01904 488888
Mix 96	Mix 96, Friars Square Studios, 11 Bourbon Street, Aylesbury, Bucks HP20 2PZ - tel 01296 399396
Moray Firth	Moray Firth Radio, PO Box 271, Inverness IV3 6SF - tel 01463 224433
NECR	North East Community Radio, Town House, Aberdeenshire AB51 0US - tel 01467 632878
Nevis Radio	Nevis Radio, Inverlochry, Fort William, Inverness-shire PH33 6LU - tel 01397 700007
Northants	Northants Radio, The Enterprise Park, Boughton Green Rd, Northants NN2 7AH - tel 01604 792411
Northsound	Northsound, 45 Kings Gate, Aberdeen AB2 6BI - tel 01224 632234
Oasis	Oasis, St Albans and Watford Broadcasting, Company, The Broadcast Centre, 7 Hatfield Road, St Albans AL1 3RS - tel 01727 831966
Ocean FM	Ocean FM, Radio House, Whittle Avenue, Segensworth West, Fareham PO15 5SH - tel 01489 589911
Orchard FM	Orchard FM, Haygrove House, Taunton, Somerset TA3 7BT - tel 01823 338448
Piccadilly	Piccadilly, 127-131 The Piazza, Piccadilly Plaza, Manchester M1 4AW - tel 0161 236 9913
Pirate FM	Pirate FM 102, Carn Brea Studios, Wilson Way, Redruth, Cornwall TR15 3XX - tel 01209 314400
Plymouth Sound	Plymouth Sound FM, Earl's Acre, Plymouth PL3 4HX - tel 01752 227272
Power FM	Power FM, Radio House, Whittle Avenue, Segensworth West, Fareham PO15 5SH - tel 01489 589911
Premier	Premier Radio, Glen House, Stag Place, London SW1E 5AG - tel 0171 233 6705
Pulse	The Pulse, Forster Square, Bradford BD1 5NE - tel 01274 731521
Q102.9	Q102.9, The Riverside Suite, The Old Waterside Railway Station, Duke Street, Waterside, Londonderry BT46 1DH - tel 01504 44449
Q103 FM	Q103 FM, Enterprise House, The Vision Park, Chivers Way, Histon, Cambridge CB4 4WW - tel 01223 235255

independent local stations - tel numbers and addresses

Q96	Q96, 26 Lady Lane, Paisley PA1 2LG - tel 00141 887 9630
Ram FM	Ram FM, The Market Place, Derby DE1 3AA - tel 01332 292945
Red Dragon FM	Red Dragon FM, Radio House, West Canal Wharf, Cardiff CF1 5XJ - tel 01222 384041
Red Rose	Red Rose Radio, St Paul's Square, Preston PR1 1XS - tel 01772 556301
RTM	RTM, Harrow Manor Way, Thamesmead, South, London SE2 9XH - tel 0181 311 3112
Sabras Sound	Sabras Sound, Radio House, 63 Melton Road, Leicester LE4 6PN - tel 0116 261 0666
Scot FM	Scot FM, Number 1 Shed, Albert Quay, Leith EH6 7DN - tel 0131 554 6677
Severn Sound	Severn Sound, Broadcast Centre, Southgate Street, Gloucester GL1 2DQ - tel 01452 423791
SGR Colchester	SGR Colchester, Abbeygate Two, 9 Whitewell Road, Colchester CO2 7DE - tel 01206 575859
SGR-FM Bury	SGR-FM Bury, PO Box 250, Bury St. Edmunds, Suffolk IP33 1AD - tel 01284 702622
SGR-FM Ipswich	SGR-FM Ipswich, Radio House, Alpha Business Park, White House Road, Ipswich, Suffolk IP1 5LT - tel 01473 461000
SIBC	SIBC, Market Street, Lerwick, Shetland ZE1 0JN - tel 01595 695299
Signal Cheshire	Signal Cheshire, Regent House, Heaton Lane, Stockport SK4 1BX - tel 0161 480 5445
Signal	Signal Radio, Stoke Road, Stoke-on-Trent ST4 2SR - tel 01782 747047
South Coast Btn	South Coast Radio, Radio House, PO Box 2000, Brighton BN14 2SS - tel 01273 430111
South Coast Ports	South Coast Radio, Radio House, Whittle Avenue, Segensworth West, Fareham PO15 5SH - tel 01489 589911
South West Snd	South West Sound, Campbell House, Bankend Road, Dumfries DG1 4TH - tel 01387 250999
South-W Sussex	South West Sussex Radio Ltd, 1 Argyle Road, Bognor Regis PO21 1DY - tel 01243 828488
Southern FM	Southern FM, Radio House, PO Box 2000, Brighton BN41 2SS - tel 01273 430111
Spectrum	Spectrum International Radio, Endeavour House, Brent Cross, London NW2 1JT - tel 0181 905 5000
Spire FM	Spire FM, City Hall Studios, Malthouse Lane, Salisbury SP2 7QQ - tel 01722 416644
Star FM	Star FM, Tristar Broadcasting Ltd, The Observatory Shopping Centre, Slough, Berkshire SL1 1LH - tel 01753 551066
Stray FM	Stray FM, Stray Studios, PO Box 972, Station Parade, Harrogate HG1 5YF - tel 01423 522972
Sun City	Sun City 103.4, 39 Holmeside, Sunderland - tel 0191 567 3333
Sunrise FM	Sunrise FM, Sunrise House, 30 Chapel Street, Little Germany, Bradford BD1 5DN - tel 01274 735043
Sunrise Radio	Sunrise Radio, Sunrise House, Sunrise Road, Southall, Middlesex UB2 4AU - tel 0181 574 6666
Sunshine 855	Sunshine 855, Sunshine House, Waterside, Ludlow, Shropshire SY8 1GS - tel 01584 873795
Swansea Sound	Swansea Sound, Victoria Road, Gowerton, Swansea SA4 3AB - tel 01792 893751
Tay	Radio Tay, 6 North Isla Street, Dundee DD3 7JQ - tel 01382 200800
Ten 17	Ten 17, Latton Bush Centre, Southern Way, Harlow, Essex CM18 7BU - tel 01279 432415
TFM	TFM Radio, Yale Crescent, Thornaby, Stockton-on-Tees, Cleveland TS17 6AA - tel 01642 615111
Touch AM	Touch AM, PO Box 99, Cardiff CF1 5YJ - tel 01222 237878
Townland Radio	Townland Radio 828 AM, PO Box 828, Cookstown, Co Tyrone BT80 9LQ - tel 016487 64828
Trent FM	Trent FM, 29-31 Castle Gate, Nottingham, NG1 7AP - tel 0115 952 7000
Viking FM	Viking FM, Commercial Road, Hull HU1 2SG - tel 01482 325141
Virgin London	Virgin Radio London, 1 Golden Square, London W1R 4DJ - tel 0171 434 1215
Viva	Viva 963 AM, Golden Rose House, 26-27 Castlereagh Street, London W1H 6DJ - tel 0171 706 9963
WABC	WABC, 267 Tettenhall Road, Wolverhampton WV6 0DQ - tel 01902 838383
Wave	Radio Wave, 965 Mowbray Drive, Blackpool, Lancashire FY3 7JR - tel 01253 304965
Wessex FM	Wessex FM, Radio House, Trinity Street, Dorchester, Dorset DT1 1DJ - tel 01305 250333
West Sound	West Sound Radio PLC, Radio House, Holmston Road, Ayr KA7 3BE - tel 01292 283662
Wey Valley	Wey Valley Radio, Prospect Place, Mill Lane, Alton, Hants GU34 2SY - tel 01420 544444
Wyvern	Radio Wyvern, 5 Barbourne Terrace, Worcester WR1 3JZ - tel 0905 612212
XL	Radio XL 1296 AM, KMS House, Bradford Street, Birmingham B12 0JD - tel 0121 753 5353
Xtra AM	1152 Xtra AM, Radio House, Aston Road North, Birmingham B6 4BX - tel 0121 359 4481
Yorkshire Coast	Yorkshire Coast Radio, PO Box 962, Scarborough YO12 5YX - tel 01723 500962

transmitter grid references

Aberdare	SO 034013	Carmarthen	SN 412213	Fort Albert	WA 589086
Abergavenny	SO 244126	Carmel	SN 567153	Fort Widley	SU 657065
Aberfillery	SO 224023	Carnmone Hill	J 336829	Fort William	NM 117772
Acklam Wold	SE 795619	Caterham	TQ 343557	Foxhall Heath	TM 212445
Alexandra Palace	TQ 297901	Chalford	SO 883017	Freemans Common	SK 589027
Allerton Park	SJ 421866	Chard	ST 358086	Fremont Point	UF 634559
Allesley Park	SP 296796	Chatton	NU 105264	Friarton Road	NO 119213
Alsagers Bank	SJ 812478	Chedington	ST 501050	Fulford	SE 604497
Alton	SU 722386	Chelmsford	TL 660034	Gaywick	TQ 276423
Angus	NO 394407	Cheltenham Racecourse	SO 959249	Giddington	SP 908839
Anstey Lane	SK 564068	Chesterfield	SK 383764	Irvington	NX 211981
Ardgour	NM 989626	Chesterton Fen	TL 477608	Glengorm	NM 465565
Ardsey	SE 390061	Chillerton Down	SZ 475835	Gleniffer Braes	NS 457598
Arfon	SH 476493	Chippenham	ST 914751	Gloucester	SO 841230
Ashkirk	NT 470244	Christchurch	SZ 353896	Goxhill	TA 108246
Ashton Moss	SJ 915985	Churchdown Hill	SO 880188	Grantham	SK 905337
Axe Valley	SY 283945	Cirencester	SP 040057	Grantown	NJ 003267
Bakers Wood	TL 660034	Cirencester Town	SP 023021	Great Barton	TL 886686
Ballachuish	NN 059593	Cletraval	NF 751716	Great Braxted	TL 870149
Ballycastle	DO 77423	Clevedon	ST 400697	Great Malvern	SO 774464
Barnoldswick	SD 897480	Clifton	SK 518959	Great Ormes Head	SH 766834
Barnstaple FM	SS 502289	Clipstone	SK 583642	Greenside	NZ 151627
Barnstaple MF	SS 519298	Clyro	SO 204432	Greenside Scalp	NO 431290
Barrow	SD 218707	Colnswell	NT 221861	Gt. Massingham	TF 788228
Basingstoke	SU 600488	Combe Martin	SS 582462	Guernsey (Rohais)	02W33 49N27
Bath	SZ 769654	Conwy	SH 781765	Guildford	SU 975486
Beacon Hill	SK 857620	Copt Oak	SK 483126	Gunthorpe	TF 189032
Bebington	SJ 351838	Cornholme	SO 918264	Hadfield Road	ST 165746
Bedford	TL 035464	Cotheridge	SO 805540	Hainning	NZ 357512
Beecroft Hill	SE 237350	Crabwood Farm	SU 449295	Hamedon Hill	SD 808288
Belmont	TF 217837	Craigkelly	NT 233872	Hannington	SU 527568
Ben Gullipen	NN 598045	Crieff	NN 814200	Harlow Hill	SE 288542
Benfleet	TQ 790867	Crimpsall	SE 566032	Haslemere	SO 886331
Berwick-on-Tweed	NT 980547	Croesnew	SS 858952	Haslingden	SD 795236
Betws-Y-Coed	SH 825582	Croydon	TQ 332696	Hastings	TQ 807100
Bexhill	TQ 744080	Crystal Palace	TQ 339712	Haverfordwest	SN 028261
Bexhill MF	TQ 724071	Cwmymfan	SS 798397	Hazelshaw Hill	NY 063767
Bilsdale West Moor	SE 553962	Dalburgh	NF 736216	Heathfield	TQ 566220
Bincombe	SY 687848	Dartford Tunnel	TQ 571769	Hebden Bridge	SD 988267
Bincombe Hill	SY 678857	Darvel	NS 557341	Hemdean	SU 710762
Black Hill	NJ 828647	Darwen	SZ 708223	Henley	SU 780822
Black Mountain	IJ 278727	Dechmont Hill	NS 647578	High Hunsley	SE 945350
Blackpool Tower	SD 306360	Deiniolen	SH 576621	High Wycombe	SU 856942
Blaenavon	SO 277063	Derby	SK 349367	Holme Moss	SE 095041
Blaenplwyf	SN 569756	Divis	J 286750	Hoo	TQ 790720
Bluebell Hill	TQ 757613	Dolgellau	SH 727185	Hoo St	TQ 788730
Blunsdon	SU 143900	Douglas (IOM)	SC 373746	Horsham	TQ 176307
Bodmin	SX 095681	Dover	TR 274397	Hull	TA 169258
Boston	TF 260448	Droitwich	SO 929663	Huntshaw Cross	SS 527221
Bournemouth	SZ 070926	Dumfries	NY 055714	Hutton	TF 361588
Bow Brickhill	SP 914342	Dundee	NO 431290	Icewell Hill	TL 640635
Bowmore	NR 318590	Dundry	SZ 551669	Idle	SE 163374
Brecon	SO 030299	Dunkirk	TR 078590	Ilchester Crescent	ST 577700
Breinton	SO 472406	Dunstable	TL 044210	Innerleithen	NT 325368
Bressay	HU 503387	Durris	NO 763897	Isle Of Scilly	SV 911124
Bridlesford Farm	SZ 530900	Duxhurst	TQ 258453	Ivybridge	SC 631538
Bridport	SY 453915	Earls Hill	NS 718884	Jersey (Trinity)	02W06 49N13
Brighton	TQ 234051	Ebbw Vale	SO 159088	Keelylang Hill	HY 378102
Brighton(Whitehawk Hill)	TQ 330045	Egford Hill	ST 764481	Keighley	SE 069444
Brookmans Park	TL 259050	Eitshal	NB 305302	Kempston	TL 035464
Brougher Mountain	H 350527	Enniskillen	H 232457	Kendal	SD 540912
Brundall	TG 305077	Exeter	SX 931881	Kenley	TQ 329592
Burghead	NJ 125685	Eyemouth	NT 947599	Keswick Forest	NY 223244
Burnaston Lane	SK 297314	Faire Mhor	NN 993583	Kettering	SP 855795
Burnhope	NZ 184474	Fareham	SU 546058	Kidderminster	SO 808739
Burton Down	SU 965131	Farlington Marshes	SU 688052	Kilkeel	J 281180
Buxton	SK 060753	Farnon	SJ 405554	Kilvey Hill	SP 672940
Caldbeck	NY 299425	Farnley	SE 241307	Kings Heath	SP 740633
Calne	ST 997699	Farthinghoe	SP 532387	Kingswear	SK 887511
Cambret Hill	NX 524578	Fenham	NZ 216648	Kingsussie	NN 769985
Cambridge ChestertonFen	TL 477608	Fern Barrow	SZ 070926	Kinlochleven	NN 178630
Cambridge (Madingley)	TL 392594	Ferndale	ST 006970	Kirkconnel	NS 746150
Camlogh	J 055246	Ffestiniog	SH 709392	Kirkton Maier (Perth)	NO 102210
Camp Hill	SU 112337	Folkstone	TR 255389	Knock More	NJ 321497
Campbeltown	NR 707192	Folkstone FM	TR 229382	Knock-Breckan	IJ 327275
Caradon Hill	SX 273707	Forde	SJ 205000	Lacock	SD 928674
Carlisle	NY 412526	Forfar	NO 482409	Lancaster	SD 490662

transmitter grid references

Langley Mill	SP 160968	Oban	NM 850290	Stanton Moor	SK 246637
Lark Stoke	SP 187427	Occombe	SX 878630	Start Point	SX 814378
Larne	D 395037	Ogmore Vale	SS 929894	Stirling Hill	NK 124411
Leamington Spa	SP 329663	Okehampton	SX 586967	Stockland Hill	ST 222014
Lerwick	HU 475415	Olivers Mount	TA 040869	Stockton	NZ 420218
Les Platons (CI)	02W06 49N15	Oxcliffe	SD 444613	Stoke Holy Cross	TG 258026
Les Touillerts	02W34 49N27	Oxford	SP 567105	Strachur	NN 094027
Lethanhill	NS 438105	Pearce's Hill	SX 931881	Stroud	SO 836077
Lewsey Farm	TL 043241	Peasmarsh	SU 984459	Sunley Building	SJ 844983
Limavady	C 711296	Peebles	NT 228416	Sutton Coldfield	SK 113003
Lincoln (Swan Pool)	SK 956710	Penaligon Downs	SX 026683	Sutton Common	SJ 933676
Lisnagarvey	J 258619	Pendle Forest	SD 825384	Swindon	SU 159825
Little Shurdington	SO 913175	Penifiler	NG 489417	Swingate	TR 334429
Littlebourne	TR 203590	Penmaen Rhos	SH 877779	Symington	NS 377334
Llanddona	SH 582810	Penmon	SH 615789	Tacolneston	TM 131958
Llandecwyn	SH 644371	Pennar	ST 209958	Tapton Hill	SK 324870
Llandinam	SO 050877	Penrith	NY 531313	Tarbat Ness	NH 929839
Llandrindod MF	SO 050606	Perth	NO 102212	Taunton	ST 237523
Llandrindon Wells	SO 018635	Peterborough	TL 127913	Tavistock	SM 485716
Llandyfriog	SN 348412	Pitlochry	NN 923565	Telstar Nurseries	TX 192187
Llanfyllin	SJ 151181	Plumer Barracks	SX 490585	Thanet	TR 366678
Llangenor	SS 905886	Plymouth	SX 490589	The Wrekin	SJ 628082
Llangollen	SJ 209488	Plympton	SX 531555	Todmorden	SD 957241
Llandidloes	SN 948844	Pontop Pike	NZ 147527	Ton Pentre	SS 960955
Llanrhaeadr-Ym-Mochnant	SJ 174260	Pontypool	ST 284990	Torbay	SX 878630
Llwyn-Onn	SH 625175	Port Ellen	NR 338452	Trislaig	NN 086749
Llyswn	SO 137361	Porth	ST 029919	Trowell	SK 506398
Lochgilphead	NR 848861	Postwick	TG 303086	Tullich	NO 379984
London (Lots Road)	TQ 264770	Preston	SD 625253	Turners Hill	SO 969887
Londonderry	C 404176	Pur Down	ST 610764	Tyersall Lane	SE 197322
Long Mountain	SJ 265057	Pye Green	SJ 987145	Tywyn	NH 142935
Longton	SD 467252	Quainton Hill	SP 750213	Ullapool	TV 604998
Lowestoft	TM 540943	Quarndon	SK 332419	Upperton	SN 776077
Luddenden	SE 048248	Rayleigh	TQ 830904	Varteg Hill	SU 370795
Ludlow	SO 498741	Reading	SU 710709	Veals Farm	SZ 567783
Luton (Lewsey Farm)	TL 043241	Reading (Fountain House)	SU 711733	Ventnor	SE 071172
Lydd	TR 049208	Redmoss	NJ 942024	Vicars Lot	SO 570707
Lyme Regis	SY 345935	Redruth	SW 690394	Villa Farm	SJ 305926
Machynlleth	SH 723003	Redruth MF	SW 709403	Wallasey	SD 937215
Madingley	TL 392594	Reigate	TQ 256521	Walsden South	ST 058410
Mallaig	NM 676965	Rheola	SN 841061	Washford	NZ 025384
Malvern	SO 774464	Rhymney	SO 127042	Weardale	SO 992907
Mangotsfield	ST 672780	Ridge Hill	SO 630333	Wensleydale	ST 110742
Manningtree	TM 123295	Rosemarkie	NH 762623	Wenwoe	TR 203590
Manor Farm	SU 710709	Rosemount	NO 203435	Werburgh	
Mansfield	SK 514609	Rosneath	NS 258811	(Littlebourne)	
(Fishponds Hill)		Rostrevor Forest	J 189176	West Kilbride	NS 215483
Mapperley Ridge	SK 583424	Rotherham	SK 432913	West Lynn	TF 612188
Marborough	SU 209688	Rothsay	NS 125691	Westerglen	NS 868773
Meldrum	NJ 760329	Rowridge	SZ 447865	Westwood	ST 817598
Melvaig	NG 757900	Rumster Forest	ND 197385	Weymouth	SY 663779
Mendip	SP 563488	Rusthall	TQ 557401	Whalley	SD 729 352
Meriden	SP 255844	Rye Hill	TL 449067	Wharfedale	SE 198485
Metropolitan House	SP 055862	Saddleshworth	SD 987050	Whitby	NZ 904113
Mickleham	TQ 163538	Saffron Green	TQ 216977	Whitehaven FM	NX 992123
Millburn Muir	NS 378796	Salcombe	SX 753398	Whitehaven MF	NX 974172
Minehead	SS 966452	Salisbury	SO 136285	Whitehawk Hill	TQ 330045
Moel-y-Parc	SJ 123701	Sandale	NY 266398	Windermere	SD 383980
Moorside Edge	SE 070154	Sandy Heath	TL 204494	Windsor	SU 968770
Morecambe Bay	SD 239791	Scarborough	TA 008879	Winsh-wen	SS 681966
Morley	SE 283268	Sedgley	SO 905939	Winter Hill	SD 660144
Mottram Towers	SJ 896898	Selkirk	NT 500294	Wivenhoe Park	TM 028239
Mounteagle	NH 639580	Sheffield	SK 324870	Woofferton	SO 511691
Mynydd Pencarreg	SN 577430	Sheffield MF	SK 348849	Woolmoor	SE 457881
Nailsworth	ST 849990	Shilton	SP 410836	Worcester	SO 846392
Naish Hill	ST 947686	Shooters Hill	TQ 438767	Wrexkenton	NZ 274598
Ness Of Lewis	NB 533603	Shrewsbury DF Site	SJ 471112	Wrexham	SJ 312497
Newbury	SU 494687	Sideway	SJ 876434	Wrotham	TQ 595604
Newcastle (Wrekenton)	NZ 274598	Skew Hill	SK 327933	Wycombe Marsh	SU 881919
Newhaven	TO 435006	Skriag	NG 451408	Wye	TR 066472
Newton	NZ 036653	Slough	SU 954814	Zouches Farm	TL 045210
Newton Barrow	SO 099354	South Benfleet	TQ 790867		
Newtown	SO 134917	South Knapdale	NR 837748		
Nigg	NJ 955032	Southwick	TQ 830904		
Nine Barrow Down	SZ 009811	Southwick	TQ 234051		
North Hessary Tor	SX 578742	St Thomas (Exeter)	SX 898922		
Northampton	SP 760647	Stags Shaw	NY 986709		
Nuneaton	SP 340938	Stranraer	NX 111632		

MW and LW frequency index

The index shows frequency, transmitting station and transmitter location.

All frequencies are in kHz

198	Radio 4	Burghead	801	Devon	Barnstaple	1026	Cambridgeshire	Cambridge
198	Radio 4	Droitwich	810	R Scotland	Burghead	1026	Downtown	Belfast
198	Radio 4	Westerglen	810	R Scotland	Redmoss	1026	Jersey	Jersey
198	World Service	Droitwich	810	R Scotland	Westerglen	1035	Country 1035	London
252	Atlantic 252	Dublin	828	Chiltern Supergold	Luton	1035	NorthSound Two	Aberdeen
558	Spectrum	London	828	Classic Gold 828	Bournemouth	1035	Sheffield	Sheffield
567	RTE Radio 1	Tullamore	828	Magic 828	Leeds	1035	West Sound	Ayr
585	R Scotland	Dumfries	828	Townland 828	Mid Ulster	1053	Talk	Bournemouth
603	Boss 603	Cheltenham	828	WM	Sedgley	1053	Talk	Brighton
603	Invicta SuperGold	East Kent	837	Cumbria	Barrow	1053	Talk	Droitwich
603	Radio 4	Newcastle	837	Leicester	Freemen's Cmn'	1053	Talk	Dumfries
612	RTE 2FM	Athlone	855	Devon	Plymouth	1053	Talk	Dundee
630	3CR	Luton	855	Lancashire	Preston	1053	Talk	Exeter
630	Cornwall	Redruth	855	Norfolk	Postwck	1053	Talk	Hull
648	BBC for Europe	Orfordness	855	Sunshine 855	Ludlow	1053	Talk	Londonderry
657	Cornwall	Bodmin	873	Norfolk	West Lynn	1053	Talk	Plymouth
657	Radio Wales	Wrexham	873	Radio Ulster	Enniskillen	1053	Talk	Postwck
666	Gemini AM	Exeter	882	Radio Wales	Forde	1053	Talk	Rosemarkie
666	York	Fulford(York)	882	Radio Wales	Penmon	1053	Talk	Stockton
693	5 Live	Barrow	882	Radio Wales	Twyn	1053	Talk	Tonbridge
693	5 Live	Bexhill	882	Radio Wales	Washford	1071	Talk	Clipstone
693	5 Live	Brighton	909	5 Live	Bournemouth	1071	Talk	Newcastle
693	5 Live	Burghead	909	5 Live	Brookmans Park	1089	Talk	Brookmans Park
693	5 Live	Droitwich	909	5 Live	Clevedon	1089	Talk	Dartford Tunnel
693	5 Live	Enniskillen	909	5 Live	Exeter	1089	Talk	Lisnagarvey
693	5 Live	Folkstone	909	5 Live	Fareham	1089	Talk	Moorside Edge
693	5 Live	Postwck	909	5 Live	Lisnagarvey	1089	Talk	Redmoss
693	5 Live	Redmoss	909	5 Live	Londonderry	1089	Talk	Redruth
693	5 Live	Stagshaw	909	5 Live	Moorside Edge	1089	Talk	Washford
693	5 Live	Start Point	909	5 Live	Redruth MF	1089	Talk	Westerglen
720	Radio 4	Lisnagarvey	909	5 Live	Westerglen	1107	Moray Firth	Inverness
720	Radio 4	London (Lots Road)	909	5 Live	Whitehaven	1107	Talk	Boston
720	Radio 4	Londonderry	936	Brunel Classic Gold	West Wiltshire	1107	Talk	Fareham
729	BBC Essex	Manningtree	945	Gem-AM	Derby	1107	Talk	Watwick
729	RTE Radio 1	Cork	954	Gemini AM	Torbay	1107	Talk	Lydd
738	Hereford/Worcs	Worcester	954	Wyvern	Hereford	1107	Talk	Torbay
756	Cumbria	Carlisle	963*	Asian Sound*	East Lancashire	1107	Talk	Wallasey
756	Maldwyn	Montgomeryshire	963	Viva	London	1116	Derby	Burnaston Lane
756	Radio 4	Redruth MF	990	5 Live	Twyn	1116	Guernsey	Guernsey
765	BBC Essex	Chelmsford	990	Devon	Exeter	1125	Radio Wales	Llandrindod MF
774	Kent	Littlebourne	990	Great Yorks Gold	Doncaster	1152	Amber	Gt Yarmouth
774	Leeds	Farnley	990	R Scotland	Redmoss	1152	Clyde 2	Glasgow
774	Radio 4	Enniskillen	990	WABC	Wolverhampton	1152	GNR	Tyne & Wear
774	Radio 4	Plymouth	999	Gem-AM	Nottingham	1152	London Newstalk	London
774	Severn Sound SG	Gloucester/Chelt	999	Red Rose Gold	Preston/Blackpool	1152	Piccadilly Gold	Manchester
792	Chiltern SuperG.E	Bedford	999	Solent	Fareham	1152	Plymouth Sound	Plymouth
792	Radio Ulster	Londonderry	1017	WABC	Shrewsbury/Telford	1152	Xtra-AM	Birmingham

MW and LW frequency index

1161	3CR	Bedford	1260	Marcher Gold	Wrexham/Deeside	1530	Great Yorks Gold	Huddersfield/Halifax
1161	Brunel Classic Gold	Swindon	1260	Sabras Sound	Leicester	1530	Wyvern	Worcester
1161	Great Yorks Gold	Humberside	1260	Virgin	Guildford	1548	Bristol	Mangotsfield
1161	SCR	Bexhill	1260	Virgin	Lydd	1548	Capital Gold	London
1161	Tay	Dundee	1260	York	Scarborough	1548	City Gold	Liverpool
1170	Amber	Ipswich	1278	Great Yorks Gold	Bradford	1548	Great Yorks Gold	Sheffield
1170	Eleven Seventy	High Wycombe	1278	RTE 2FM	Cork	1548	Max AM	Edinburgh
1170	GNR	Teeside	1278	RTE 2FM	Dublin	1557	Lancashire	Oxcliffe
1170	Signal Gold	Stoke on Trent	1296	XL	Birmingham	1557	Mellow 1557	Tendring
1170	South Coast	Portsmouth	1305	Great Yorks Gold	Barnsley	1557	Northants Supergold	Northampton
1170	Swansea Sound	Swansea	1305	Premier	London/Enfield	1557	South Coast	Southampton
1197	Virgin	Bournemouth	1305	Premier	London/North Looe	1584	KCBC	Kettering
1197	Virgin	Brighton	1305	Touch AM	Newport	1584	London Turkish	London/Hackney
1197	Virgin	Cambridge	1323	Bristol	Taunton	1584	Nottingham	Clipstone
1197	Virgin	Gloucester	1323	South Coast	Brighton	1584	Shropshire	Woofferton
1197	Virgin	Hoo	1332	Classic Gold 1332	Peterborough	1584	Tay	Perth
1197	Virgin	Oxford	1332	Premier	London/Battersea	1602	Kent	Rusthall
1197	Virgin	Torbay	1332	Wiltshire Snd	Lacock			
1197	Virgin	Trowell	1341	Radio Ulster	Lisnagarvey			
1197	Virgin	Wallasey	1359	Breeze	Chelmsford			
1215	Virgin	Brookmans Park	1359	Classic Gold 1359	Coventry			
1215	Virgin	Dartford Tunnel	1359	Solent	Bournemouth			
1215	Virgin	Droitwich	1359	Touch AM	Cardiff			
1215	Virgin	Fareham	1368	Lincolnshire	Lincoln			
1215	Virgin	Hull	1368	Manx	Foxdale			
1215	Virgin	Lisnagarvey	1368	SCR	Duxhurst			
1215	Virgin	Moorside Edge	1368	Wiltshire Snd	Swindon			
1215	Virgin	Newcastle	1413	Premier	London/Dartford			
1215	Virgin	Plymouth	1413	Premier	London/Heathrow			
1215	Virgin	Postwick	1431	Breeze	Southend			
1215	Virgin	Redmoss	1431	Classic Gold 1431	Reading			
1215	Virgin	Washford	1449	Cambridgeshire	Gunthorpe			
1215	Virgin	Westerglen	1449	Radio 4	Redmoss			
1233	Virgin	Gatwick	1458	Cumbria	Whitehaven			
1233	Virgin	Kings Heath	1458	Devon	Torbay			
1233	Virgin	Manningtree	1458	Fortune 1458	Manchester			
1233	Virgin	Reading	1458	Newcastle	Newcastle			
1233	Virgin	Sheffield	1458	Sunrise Radio	London			
1233	Virgin	Swindon	1458	WM	Langley Mill			
1242	Invicta SuperGold	Maidstone/Medway	1476	County Sound	Guildford			
1242	Isle of Wight	Isle of Wight	1485	Humberside	Hull			
1242	Virgin	Boston	1485	Merseyside	Wallasey			
1242	Virgin	Dundee	1485	Radio 4	Carlisle			
1242	Virgin	Sideway	1485	SCR	Brighton			
1242	Virgin	Stockton	1503	Stoke	Sideway			
1251	Amber	Bury St. Edmunds	1521	Mercury Extra AM	Reigate/Crawley			
1260	Brunel Classic Gold	Bristol	1530	BBC Essex	Southend			

* stations, transmitters or frequencies marked with an asterisk (*) are proposed, but are not yet in service

FM frequency index

The index shows frequency, transmitting station and transmitter location.

All frequencies are in MHz

88.1	Radio 2	Ballachulish	88.6	Radio 2	Llangeinor	89.1	Radio 2	Melvaig
88.1	Radio 2	Bowmore (m)	88.6	Radio 2	Ridge Hill	89.1	Radio 2	West Kilbride
88.1	Radio 2	Cirencester Town	88.6	Radio 2	Strachur	89.1	Radio 2	Wrotham
88.1	Radio 2	Cletraval	88.6	Radio 2	Upperton*	89.1	RTE 1	Kippure
88.1	Radio 2	Clyro	88.6	Radio 2	Winter Hill	89.2	Radio 2	Aberdare
88.1	Radio 2	Deniolen	88.6	Sheffield	Sheffield	89.2	Radio 2	Chalford
88.1	Radio 2	Ffestiniog	88.7	Radio 2	Abergavenny	89.2	Radio 2	Ogmore Vale*
88.1	Radio 2	Grantham	88.7	Radio 2	Ardgour	89.2	Radio 2	Pitlochry
88.1	Radio 2	Guildford	88.7	Radio 2	Beacon Hill*	89.2	Radio 2	Pontypool
88.1	Radio 2	Llanidloes	88.7	Radio 2	Ben Gullipen	89.2	Radio 2	Rosneath
88.1	Radio 2	Mallaig	88.7	Radio 2	Blaenplwyf	89.2	RTE 1	Holywell Hill
88.1	Radio 2	Manningtree	88.7	Radio 2	Cambret Hill	89.3	Radio 2	Creff
88.1	Radio 2	North Hessary Tor	88.7	Radio 2	Camlough	89.3	Radio 2	Daliburgh
88.1	Radio 2	Penifler	88.7	Radio 2	Kirkconnel	89.3	Radio 2	Fort William
88.1	Radio 2	Sandale	88.7	Radio 2	Londonderry	89.3	Radio 2	Haverfordwest
88.2	Radio 2	Betws-y-Coed	88.7	Radio 2	Luddenden	89.3	Radio 2	Holme Moss
88.2	Radio 2	Bexhill	88.7	Radio 2	Meldrum	89.3	Radio 2	Ilchester Crescent
88.2	Radio 2	Calne	88.7	Radio 2	Okehampton	89.3	Radio 2	Keelylang Hill
88.2	Radio 2	Knock More	88.8	Jersey	Les Platons	89.3	Radio 2	Rhymney
88.2	Radio 2	Nailsworth	88.8	Radio 2	Ballycastle	89.3	Radio 2	South Knapdale
88.2	Radio 2	Newbury*	88.8	Radio 2	Belmont	89.4	Radio 2	Brougher Mountain
88.2	Radio 2	Rheola	88.8	Radio 2	Carmoney Hill	89.4	Radio 2	Durris
88.2	RTE 1	Truskmore	88.8	Radio 2	Chippenham	89.4	Radio 2	Hutton
88.3	Radio 2	Bressay(Shetlands)	88.8	Radio 2	Crystal Palace	89.4	Radio 2	Kilkeel
88.3	Radio 2	Forfar	88.8	Radio 2	Isles of Scilly	89.4	Radio 2	Llandecwyn*
88.3	Radio 2	Lethanhill	88.8	Radio 2	Penaligon Downs	89.4	Radio 2	Machynlleth
88.3	Radio 2	Llwyn-Onn	88.8	Radio 2	Ton Pentre	89.4	Radio 2	Newton
88.3	Radio 2	Lochgiphead	88.8	RTE 1	Maghera	89.4	Radio 2	Ventnor
88.3	Radio 2	Millburn Muir	88.9	Radio 2	Brecon	89.5	Radio 2	Axe Valley
88.3	Radio 2	Ness of Lewis	88.9	Radio 2	Cambridge	89.5	Radio 2	Darvel
88.3	Radio 2	Rostrevor Forest	88.9	Radio 2	Carmarthen	89.5	Radio 2	Darwen
88.3	Radio 2	Sutton Coldfield	88.9	Radio 2	Chard	89.5	Radio 2	Glengorm
88.3	Radio 2	Ullapool	88.9	Radio 2	Girvan	89.5	Radio 2	Innerleithen
88.3	Radio 2	Wensleydale	88.9	Radio 2	Keighley	89.5	Radio 2	Kilvey Hill
88.3	Radio 2	Westwood	88.9	Radio 2	Llangollen	89.5	Radio 2	Oxford
88.3	Radio 2	Windermere	88.9	Radio 2	Northampton	89.5	Radio 2	Pennar
88.4	Radio 2	Campbeltown	88.9	Radio 2	Oban	89.5	Radio 2	Salcombe*
88.4	Radio 2	Carmel	88.9	Radio 2	Todmorden	89.6	Radio 2	Ferndale
88.4	Radio 2	Douglas (I of M)	88.9	Radio 2	Varteg Hill	89.6	Radio 2	Hastings
88.4	Radio 2	Ebbw Vale	89.0	Manx	Snæfell	89.6	Radio 2	Keswick Forest*
88.4	Radio 2	Folkestone	89.0	Radio 2	Abertillery	89.6	Radio 2	Les Platons (C.I.)
88.4	Radio 2	Hebden Bridge	89.0	Radio 2	Bath	89.6	Radio 2	Limavady
88.4	Radio 2	Kenley	89.0	Radio 2	Blunston	89.6	Radio 2	Llyswen
88.4	Radio 2	Peebles	89.0	Radio 2	Chesterfield	89.6	Radio 2	Long Mountain
88.4	Radio 2	Penmaen Rhos	89.0	Radio 2	Churchdown Hill	89.6	Radio 2	Ludlow
88.4	Radio 2	Porth	89.0	Radio 2	Croeserw	89.6	Radio 2	Rosemarkie
88.4	Radio 2	Walsden South	89.0	Radio 2	Kendal	89.6	Radio 2	Rosemount
88.4	Radio 2	Wharfedale	89.0	Radio 2	Kirkton Mailer	89.6	Radio 2	Whalley*
88.5	Radio 2	Barnstaple	89.0	Radio 2	Minehead*	89.6	Radio 2	Whitby
88.5	Radio 2	Blaenavon	89.0	Radio 2	Port Ellen	89.6	RTE 1	Mount Leinster
88.5	Radio 2	Cwmafan	89.0	Radio 2	St Thomas (Exeter)	89.7	Radio 2	Barnoldswick
88.5	Radio 2	Idle	89.1	Radio 2	Ashkirk	89.7	Radio 2	Caterham
88.5	Radio 2	Plympton	89.1	Radio 2	Brdport	89.7	Radio 2	Cornholme
88.5	Radio 2	Pontop Pike	89.1	Radio 2	Combe Martin	89.7	Radio 2	Eyemouth
88.5	Radio 2	Rothesay	89.1	Radio 2	Conwy	89.7	Radio 2	Kinlochleven
88.5	Radio 2	Rowndge	89.1	Radio 2	Egford Hill (Frome)	89.7	Radio 2	Lyme Regis*
88.5	Radio 2	Skraig	89.1	Radio 2	Kingussie	89.7	Radio 2	Mickleham
88.5	RTE 1	Three Rock	89.1	Radio 2	Larne	89.7	Radio 2	Mynydd Pencarreg
88.6	Radio 2	Berwick-on-Tweed	89.1	Radio 2	Llandrindod Wells	89.7	Radio 2	Newhaven
88.6	Radio 2	Bow Brickhill	89.1	Radio 2	Llanfyllin	89.7	Radio 2	Redruth

FM frequency index

89.7	Radio 2	Stranraer	90.5	Radio 3	Lethanhill	91.1	Radio 3	Chard
89.7	Radio 2	Tacolneston	90.5	Radio 3	Lhwyn-Onn	91.1	Radio 3	Girvan
89.7	Radio 2	Weardale	90.5	Radio 3	Lochgilphead	91.1	Radio 3	Keighley
89.7	Radio 2	Whitehaven	90.5	Radio 3	Millburn Muir	91.1	Radio 3	Les Platons (C.I.)
89.8	Radio 2	Beecroft Hill	90.5	Radio 3	Ness of Lewis	91.1	Radio 3	Llangollen
89.8	Radio 2	Etishal	90.5	Radio 3	Rostrevor Forest	91.1	Radio 3	Northampton
89.8	Radio 2	Fenham	90.5	Radio 3	Sutton Coldfield	91.1	Radio 3	Oban
89.8	Radio 2	Grantown	90.5	Radio 3	Ullapool	91.1	Radio 3	Todmorden
89.8	Radio 2	Hemdean (Reading)	90.5	Radio 3	Wensleydale	91.1	Radio 3	Varteg Hill
89.8	Radio 2	Kingswear*	90.5	Radio 3	Westwood	91.2	Radio 3	Abertillery
89.8	Radio 2	Llanddona	90.5	Radio 3	Windermere	91.2	Radio 3	Bath
89.8	Radio 2	Llanrhaeadr-ym-M	90.6	Radio 3	Campbeltown	91.2	Radio 3	Blunsdon
89.8	Radio 2	Saddleworth	90.6	Radio 3	Carmel	91.2	Radio 3	Chesterfield
89.8	Radio 2	Salisbury	90.6	Radio 3	Douglas (I of M)	91.2	Radio 3	Churchdown Hill
89.8	Radio 2	Stanton Moor	90.6	Radio 3	Ebbw Vale	91.2	Radio 3	Croesenw
89.9	Radio 2	Black Hill	90.6	Radio 3	Folkestone	91.2	Radio 3	Kendal
89.9	Radio 2	Haslingden	90.6	Radio 3	Hebden Bridge	91.2	Radio 3	Kirkton Mailer
89.9	Radio 2	Ivybridge	90.6	Radio 3	Kenley	91.2	Radio 3	Minehead*
89.9	Radio 2	Oliver's Mount	90.6	Radio 3	Peebles	91.2	Radio 3	Port Ellen (m)
89.9	Radio 2	Sheffield	90.6	Radio 3	Penmaen Rhos	91.2	Radio 3	St Thomas (Exeter)
89.9	Radio 2	Wenvoe	90.6	Radio 3	Porth	91.3	Radio 3	Ashkirk
90.0	Radio 2	Buxton	90.6	Radio 3	Walsden South	91.3	Radio 3	Bridport
90.0	Radio 2	High Wycombe	90.6	Radio 3	Wharfedale	91.3	Radio 3	Combe Martin
90.0	Radio 2	Morecambe Bay	90.7	Radio 3	Barnstaple	91.3	Radio 3	Conwy
90.0	Radio 2	Swingate	90.7	Radio 3	Blaenavon	91.3	Radio 3	Egford Hill (Frome)
90.0	Radio 2	Weymouth	90.7	Radio 3	Cwmfafan	91.3	Radio 3	Kingussie
90.0	RTE 1	Mullaghanish	90.7	Radio 3	Idle	91.3	Radio 3	Larne
90.1	Radio 2	Basingstoke	90.7	Radio 3	Plympton	91.3	Radio 3	Llandrindod Wells
90.1	Radio 2	Brighton	90.7	Radio 3	Pontop Pike	91.3	Radio 3	Llanfyllin
90.1	Radio 2	Chatton	90.7	Radio 3	Rothesay	91.3	Radio 3	Melvaig
90.1	Radio 2	Diws	90.7	Radio 3	Rowridge	91.3	Radio 3	West Kilbride
90.1	Radio 2	Dolgellau (mono)	90.7	Radio 3	Sknaig	91.3	Radio 3	Wrotham
90.1	Radio 2	Llandinam	90.7	RTE 2	Three Rock	91.3	RTE 2	Kippure
90.1	Radio 2	Llandyfrog	90.8	Radio 3	Berwck-on-Tweed	91.4	Radio 3	Aberdare
90.1	Radio 2	Marlborough	90.8	Radio 3	Bow Brickhill	91.4	Radio 3	Chalford
90.1	Radio 2	Peterborough	90.8	Radio 3	Llangeinor	91.4	Radio 3	Ogmore Vale*
90.1	Radio 2	Rumster Forest	90.8	Radio 3	Ridge Hill	91.4	Radio 3	Pitlochry
90.1	Radio 2	Tullich	90.8	Radio 3	Strachur	91.4	Radio 3	Pontypool
90.2	Radio 2	Pendle Forest	90.8	Radio 3	Upperton*	91.4	Radio 3	Rosneath
90.2	Radio 2	Woolmoor	90.8	Radio 3	Winter Hill	91.4	RTE 2	Holywell Hill
90.2	Radio 3	Clyro	90.9	Radio 3	Abergavenny	91.5	Radio 3	Creeff
90.3	Radio 3	Ballachulish	90.9	Radio 3	Ardgour	91.5	Radio 3	Daliburgh
90.3	Radio 3	Bowmore (m)	90.9	Radio 3	Beacon Hill*	91.5	Radio 3	Fort William
90.3	Radio 3	Cirencester Town	90.9	Radio 3	Belmont	91.5	Radio 3	Haverfordwest
90.3	Radio 3	Cletraval	90.9	Radio 3	Ben Gullipen	91.5	Radio 3	Holme Moss
90.3	Radio 3	Deiniolen	90.9	Radio 3	Blaenplwyf	91.5	Radio 3	Ilchester Crescent
90.3	Radio 3	Ffestiniog	90.9	Radio 3	Cambret Hill	91.5	Radio 3	Keelylang Hill
90.3	Radio 3	Granttham	90.9	Radio 3	Camlough	91.5	Radio 3	Rhymney
90.3	Radio 3	Guildford	90.9	Radio 3	Kirkconnel	91.5	Radio 3	South Knapdale
90.3	Radio 3	Llandiloes	90.9	Radio 3	Londonderry	91.6	Radio 3	Brougher Mountain
90.3	Radio 3	Mallaig	90.9	Radio 3	Luddenden	91.6	Radio 3	Durris
90.3	Radio 3	Manningtree	90.9	Radio 3	Meldrum	91.6	Radio 3	Hutton
90.3	Radio 3	North Hessary Tor	90.9	Radio 3	Okehampton	91.6	Radio 3	Kilkeel
90.3	Radio 3	Penfiler	91.0	Radio 3	Ballycastle	91.6	Radio 3	Llandecwyn*
90.3	Radio 3	Sandale	91.0	Radio 3	Carmoney Hill	91.6	Radio 3	Machynlleth
90.4	Radio 3	Betws-y-Coed	91.0	Radio 3	Chippenham	91.6	Radio 3	Newton
90.4	Radio 3	Calne	91.0	Radio 3	Crystal Palace	91.7	Radio 3	Axe Valley
90.4	Radio 3	Knock More	91.0	Radio 3	Isles of Scilly	91.7	Radio 3	Darvel
90.4	Radio 3	Nailsworth	91.0	Radio 3	Penaligon Downs	91.7	Radio 3	Darwen
90.4	Radio 3	Newbury*	91.0	Radio 3	Ton Pentre	91.7	Radio 3	Glengorm
90.4	Radio 3	Rheola	91.0	RTE 2	Maghera	91.7	Radio 3	Innerleithen
90.4	RTE 2	Truskmore	91.1	Radio 3	Brecon	91.7	Radio 3	Kilwey Hill
90.5	Radio 3	Bressay (Shetlands)	91.1	Radio 3	Cambridge	91.7	Radio 3	Oxford
90.5	Radio 3	Forfar	91.1	Radio 3	Carmarthen	91.7	Radio 3	Pennar

FM frequency index

91.7	Radio 3	Salcombe*	92.4	Radio 3	Swingate	93.0	Radio Scot	Strachur
91.7	Radio 3	Ventnor	92.4	Radio Cymru	Clyro	93.1	Radio 4	Abergavenny
91.8	Radio 3	Ferndale	92.5	Radio 4	Cirencester Town	93.1	Radio 4	Beacon Hill*
91.8	Radio 3	Hastings	92.5	Radio 4	Grantham	93.1	Radio 4	Belmont
91.8	Radio 3	Keswick Forest*	92.5	Radio 4	Guildford	93.1	Radio 4	Folkestone
91.8	Radio 3	Limavady	92.5	Radio 4	Manningtree	93.1	Radio 4	Luddenden
91.8	Radio 3	Llysven	92.5	Radio 4	Louth Hessary Tor	93.1	Radio 4	Okehampton
91.8	Radio 3	Long Mountain	92.5	Radio 4	Sandale	93.1	Radio Cymru	Blaenplwyf
91.8	Radio 3	Ludlow	92.5	Radio Cymru	Deniolen	93.1	Radio Scot	Ardgour
91.8	Radio 3	Rosemarkie	92.5	Radio Cymru	Ffestiniog	93.1	Radio Scot	Ben Gullipen
91.8	Radio 3	Rosemount	92.5	Radio Cymru	Llanidloes	93.1	Radio Scot	Cambret Hill
91.8	Radio 3	Whalley*	92.5	Radio Scot	Ballachulish	93.1	Radio Scot	Kirkconnel
91.8	Radio 3	Whitby	92.5	Radio Scot	Bowmore (m)	93.1	Radio Scot	Meldrum
91.8	RTE 2	Mount Leinster	92.5	Radio Scot	Cletraval	93.1	Radio Ulster	Camlough
91.9	Radio 3	Barnoldswick	92.5	Radio Scot	Mallaig	93.1	Radio Ulster	Londonderry
91.9	Radio 3	Caterham	92.5	Radio Scot	Penfiler	93.2	Guernsey	Les Touillets
91.9	Radio 3	Cornholme	92.6	Radio 3	Pendle Forest	93.2	Radio 4	Ballycastle
91.9	Radio 3	Eyemouth	92.6	Radio 4	Calne	93.2	Radio 4	Carnmoney Hill
91.9	Radio 3	Kinlochleven	92.6	Radio 4	Nailsworth	93.2	Radio 4	Chippenham
91.9	Radio 3	Lyme Regis*	92.6	Radio 4	Newbury*	93.2	Radio 4	Crystal Palace
91.9	Radio 3	Mickleham	92.6	Radio Cymru	Betws-y-Coed	93.2	Radio 4	Isles of Scilly
91.9	Radio 3	Mynydd Pencarreg	92.6	Radio Cymru	Rheola	93.2	Radio 4	Penaligon Downs
91.9	Radio 3	Newhaven	92.6	Radio Scot	Knock More	93.2	Radio Cymru	Ton Pentre
91.9	Radio 3	Redruth	92.6	RTE 3	Truskmore	93.2	RTE 3	Maghera
91.9	Radio 3	Saddleworth	92.7	Radio 4	Sutton Coldfield	93.3	Radio 4	Cambridge
91.9	Radio 3	Stranraer	92.7	Radio 4	Wensleydale	93.3	Radio 4	Chard
91.9	Radio 3	Tacolneston	92.7	Radio 4	Westwood	93.3	Radio 4	Keighley
91.9	Radio 3	Weardale	92.7	Radio 4	Windermere	93.3	Radio 4	Llangollen
91.9	Radio 3	Whitehaven	92.7	Radio Cymru	Lhwyn-Onn	93.3	Radio 4	Northampton
92.0	Radio 3	Beecroft Hill	92.7	Radio Scot	Bressay(Shetlands)	93.3	Radio 4	Todmorden
92.0	Radio 3	Eitshal	92.7	Radio Scot	Forfar	93.3	Radio Cymru	Brecon
92.0	Radio 3	Fenham	92.7	Radio Scot	Lethanhill	93.3	Radio Cymru	Carmarthen
92.0	Radio 3	Grantown	92.7	Radio Scot	Lochgilphhead	93.3	Radio Cymru	Varteg Hill
92.0	Radio 3	Hemdale (Reading)	92.7	Radio Scot	Millburn Muir	93.3	Radio Scot	Girvan
92.0	Radio 3	Kingswear*	92.7	Radio Scot	Ness of Lewis	93.3	Radio Scot	Oban
92.0	Radio 3	Llanddona	92.7	Radio Scot	Ullapool	93.4	Radio 4	Abertillery
92.0	Radio 3	Llanrhaeadr-ym-M	92.7	Radio Ulster	Rostrevor Forest	93.4	Radio 4	Bath
92.0	Radio 3	Salisbury	92.8	Radio 4	Douglas (I of M)	93.4	Radio 4	Blunsdon
92.0	Radio 3	Stanton Moor	92.8	Radio 4	Ebbw Vale	93.4	Radio 4	Chesterfield
92.1	Radio 3	Black Hill	92.8	Radio 4	Hebden Bridge	93.4	Radio 4	Churchdown Hill
92.1	Radio 3	Haslingden	92.8	Radio 4	Kenley	93.4	Radio 4	Kendal
92.1	Radio 3	Ivybridge	92.8	Radio 4	Porth	93.4	Radio 4	Minehead*
92.1	Radio 3	Oliver's Mount	92.8	Radio 4	Upperton*	93.4	Radio 4	St Thomas (Exeter)
92.1	Radio 3	Sheffield	92.8	Radio 4	Walsden South	93.4	Radio Cymru	Croeserw
92.1	Radio 3	Wenvoe	92.8	Radio 4	Wharfedale	93.4	Radio Scot	Kirkton Mailer
92.2	Radio 3	Bexhill	92.8	Radio Cymru	Carmel	93.4	Radio Scot	Port Ellen (m)
92.2	Radio 3	Buxton	92.8	Radio Cymru	Penmaen Rhos	93.5	Radio 4	Bridport
92.2	Radio 3	High Wycombe	92.8	Radio Scot	Campbeltown	93.5	Radio 4	Combe Martin
92.2	Radio 3	Morecambe Bay	92.8	Radio Scot	Peebles	93.5	Radio 4	Egford Hill (Frome)
92.2	Radio 3	Weymouth	92.9	Radio 4	Barnstaple	93.5	Radio 4	Llanfyllin
92.2	Radio 3	Woolmoor	92.9	Radio 4	Blaenavon	93.5	Radio 4	Wrotham
92.2	RTE 2	Mullaghanish	92.9	Radio 4	Cwmfafan	93.5	Radio Cymru	Conwy
92.3	Radio 3	Basingstoke	92.9	Radio 4	Idle	93.5	Radio Cymru	Llandrindod Wells
92.3	Radio 3	Brighton	92.9	Radio 4	Plympton	93.5	Radio Scot	Ashkirk
92.3	Radio 3	Chatton	92.9	Radio 4	Pontop Pike	93.5	Radio Scot	Kingussie
92.3	Radio 3	Divis	92.9	Radio 4	Rowridge	93.5	Radio Scot	Melvaig
92.3	Radio 3	Dolgellau (mono)	92.9	Radio Scot	Rothsay	93.5	Radio Scot	West Kilbride
92.3	Radio 3	Llandnam	92.9	Radio Scot	Skrnaig	93.5	Radio Ulster	Larne
92.3	Radio 3	Llandyfriog	92.9	RTE 3	Three Rock	93.5	RTE 3	Kippure
92.3	Radio 3	Marlborough	93.0	Radio 4	Berwick-on-Tweed	93.6	Radio 4	Chalford
92.3	Radio 3	Peterborough	93.0	Radio 4	Bow Brickhill	93.6	Radio 4	Ogmore Vale*
92.3	Radio 3	Rumster Forest	93.0	Radio 4	Llangenor	93.6	Radio Cymru	Aberdare
92.3	Radio 3	Tullich	93.0	Radio 4	Ridge Hill	93.6	Radio Cymru	Pontypool
92.4	Leeds	Holme Moss	93.0	Radio 4	Winter Hill	93.6	Radio Scot	Pitlochry

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93.6	Radio Scot	Rosneath	94.2	Radio Cymru	Llanddona	95.2	Cornwall	Caradon Hill
93.6	RTE 3	Holywell Hill	94.2	Radio Scot	Eitshal	95.2	Cumbria	Kendal
93.7	Island FM	Alderney	94.3	Radio 4	Haslingden	95.2	Oxford	Oxford
93.7	Radio 4	Holme Moss	94.3	Radio 4	Ivybridge	95.2	Radio 4	Campbeltown
93.7	Radio 4	Ilchester Crescent	94.3	Radio 4	Oliver's Mount	95.2	RTE 1	Clermont Carn
93.7	Radio 4	Rhymney	94.3	Radio 4	Sheffield	95.3	BBC Essex	South Benfleet
93.7	Radio Cymru	Haverfordwest	94.3	Radio 4	Wenvoe	95.3	Derby	Stanton Moor
93.7	Radio Scot	Crieff	94.3	Radio Scot	Black Hill	95.3	Leeds	Luddenden
93.7	Radio Scot	Daliburgh	94.4	Radio 4	Buxton	95.3	Leeds	Wharfedale
93.7	Radio Scot	Fort William	94.4	Radio 4	High Wycombe	95.3	Radio 4	Cambret Hill
93.7	Radio Scot	Keelylang Hill	94.4	Radio 4	Morecambe Bay	95.3	Radio 4	Crieff
93.7	Radio Scot	South Knapdale	94.4	Radio 4	Swingate	95.3	Radio 4	Girvan
93.8	Radio 4	Hutton	94.4	Radio 4	Weymouth	95.3	Radio 4	Kirkconnel
93.8	Radio 4	Llandecwyn*	94.4	Radio 4	Woolmoor	95.3	Radio 4	Meldrum
93.8	Radio 4	Newton	94.4	RTE 3	Mullaghansh	95.3	Radio 4	Oban
93.8	Radio 4	Ventnor	94.5	Radio 4	Basingstoke	95.3	Radio Ulster	Carmoney Hill
93.8	Radio Cymru	Machynlleth	94.5	Radio 4	Brighton	95.3	SCR	Whitehawk Hill
93.8	Radio Scot	Durriss	94.5	Radio 4	Chatton	95.4	Berkshire	Windsor
93.8	Radio Ulster	Brougher Mountain	94.5	Radio 4	Llandinam	95.4	Newcastle	Pontop Pike
93.8	Radio Ulster	Kilkeel	94.5	Radio 4	Marlborough	95.4	Radio Ulster	Lirnagady
93.9	Radio 4	Axe Valley	94.5	Radio 4	Peterborough	95.5	3CR	Sandy Heath
93.9	Radio 4	Darwen	94.5	Radio Cymru	Dolgellau (mono)	95.5	Bristol	Mendip
93.9	Radio 4	Oxford	94.5	Radio Cymru	Llandyfrog	95.5	Lancashire	Hambledon Hill
93.9	Radio 4	Pennar	94.5	Radio Scot	Rumster Forest	95.5	Nottingham	Mansfield
93.9	Radio 4	Salcombe*	94.5	Radio Scot	Tullich	95.5	Radio 4	Carmarthen
93.9	Radio Cymru	Kilvey Hill	94.5	Radio Ulster	Divis	95.5	Radio 4	Rosemount
93.9	Radio Scot	Darvel	94.6	Berkshire	Henley	95.5	Suffolk	Lowestoft
93.9	Radio Scot	Glengorm	94.6	Radio 4	Bexhill	95.5	York	Oliver's Mount
93.9	Radio Scot	Innerleithen	94.6	Radio 4	Pendle Forest	95.6	Cumbria	Sandale
94.0	Radio 4	Ferndale	94.6	Radio Scot	Grantown	95.6	Radio 4	Brougher Mountain
94.0	Radio 4	Keswick Forest*	94.6	Stoke	Alsagers Bank	95.6	Radio 4	Kinlochleven
94.0	Radio 4	Lirnagady	94.7	Hereford/Worcs	Ridge Hill	95.6	Radio 4	South Knapdale
94.0	Radio 4	Long Mountain	94.7	Radio 4	Ballachulish	95.6	WM	Sutton Coldfield
94.0	Radio 4	Ludlow	94.7	Radio 4	Mallaig	95.7	Cambridgeshire	Peterborough
94.0	Radio 4	Whalley*	94.7	Radio 4	Port Ellen (m)	95.7	Radio 4	Bowmore (m)
94.0	Radio 4	Whitby	94.7	Radio Scot	Sandale	95.7	Radio 4	Kingsussie
94.0	Radio Cymru	Llyswen	94.7	Sheffield	Chesterfield	95.7	Radio 4	Melvaig
94.0	Radio Scot	Rosemarkie	94.8	CWR	Meriden	95.7	Radio Cymru	Llanfyllin
94.0	Radio Scot	Rosemount	94.8	Devon	North Devon	95.8	Capital FM	London
94.0	RTE 3	Mount Lemster	94.8	Radio 4	Knock More	95.8	Cleveland	Whitby
94.1	Radio 4	Barnoldswick	94.8	Radio 4	Les Platons (C.1)	95.8	Devon	Exeter
94.1	Radio 4	Caterham	94.8	Radio 4	Skriaig	95.8	Gloucestershire	Cirencester
94.1	Radio 4	Cornholme	94.9	Bristol	Ilchester Crescent	95.8	Merseyside	Allerton Park
94.1	Radio 4	Lyme Regis*	94.9	GLR	Crystal Palace	95.8	Radio 4	Black Hill
94.1	Radio 4	Mickleham	94.9	Lincolnshire	Belmont	95.9	Humberstone	High Hunsley
94.1	Radio 4	Newhaven	94.9	Radio 4	Bressay(Shetlands)	95.9	Invicta FM	East Kent/Thanet
94.1	Radio 4	Redruth	94.9	Radio 4	Forfar	95.9	Radio 4	Daliburgh
94.1	Radio 4	Saddleworth	94.9	Radio 4	Lethanhill	95.9	Radio 4	Durriss
94.1	Radio 4	Tacolneston	94.9	Radio 4	Londonderry	95.9	Radio 4	Fort William
94.1	Radio 4	Weardale	95.0	Cleveland	Bilsdale	95.9	Radio 4	Keelylang Hill
94.1	Radio 4	Whitehaven	95.0	Gloucestershire	Stroud	95.9	Radio Wales	Christchurch
94.1	Radio Cymru	Mynydd Pencarreg	95.0	Radio 4	Peebles	96.0	Cornwall	Isles of Scilly
94.1	Radio Scot	Eyemouth	95.0	SCR	Newhaven	96.0	Cambridgeshire	Cambridge
94.1	Radio Scot	Kinlochleven	95.0	Shropshire	Ludlow	96.0	Devon	Okehampton
94.1	Radio Scot	Stranraer	95.1	GMR	Holme Moss	96.0	Newcastle	Chatton
94.2	Derby	Derby	95.1	Norfolk	Tacolneston	96.0	Radio 4	Divis
94.2	Radio 4	Beecroft Hill	95.1	Radio 4	Ardgour	96.0	Shropshire	The Wrekin
94.2	Radio 4	Fenham	95.1	Radio 4	Clettraval	96.0	Wessex FM	Dorchester
94.2	Radio 4	Hastings	95.1	Radio 4	Eitshal	96.1	Cumbria	Morecambe Bay
94.2	Radio 4	Hemdean (Reading)	95.1	Radio 4	Rothesay	96.1	Hallam FM	Rotherham
94.2	Radio 4	Kingswear*	95.1	Radio 4	Strachur	96.1	Invicta FM	Ashford
94.2	Radio 4	Llanhaeadr-ym-M	95.1	Radio Ulster	Ballycastle	96.1	Radio 4	Glengorm
94.2	Radio 4	Salsbury	95.1	Radio Wales	Blaenavon	96.1	Radio 4	Innerleithen
94.2	Radio 4	Stanton Moor	95.1	SCR	Horsham	96.1	Radio 4	Ness of Lewis

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96.1	Radio 4	Penifiler	97.1	MFM	Deeside	97.9	Radio 1	Westwood
96.1	Radio 4	Ullapool	97.1	Orchard FM	Yeovil	97.9	Radio 1	Windermere
96.1	Radio Cymru	Llandinam	97.1	Radio 1	Les Platons (C. I.)	97.9	Radio Nan G	Lochgilthead
96.1	SGR	Colchester	97.1	SGR	Ipswich	98.0	Radio 1	Campbeltown
96.1	Solent	Rowridge	97.2	Beacon	Wolverhampton	98.0	Radio 1	Carmel
96.2	Century FM	Fenhafn	97.2	Galaxy	Bristol	98.0	Radio 1	Douglas (I of M)
96.2	KFM	Tonbridge (South)	97.2	GWR	Swindon	98.0	Radio 1	Ebbw Vale
96.2	Kix 96	Coventry	97.2	Manx	Douglas	98.0	Radio 1	Hebden Bridge
96.2	Lantern	Barnstaple	97.2	South West Sound	Dumfries	98.0	Radio 1	Kenley
96.2	Mix 96	Aylesbury	97.2	Stray FM	Harrogate	98.0	Radio 1	Peebles
96.2	SIBC	Shetland Islands	97.2	Wessex FM	Dorchester	98.0	Radio 1	Penmaen Rhos
96.2	Trent FM	Nottingham	97.3	Forth FM	Edinburgh/Craigkelly	98.0	Radio 1	Porth
96.2	Yorkshire Coast	Scarborough	97.3	London News	London	98.0	Radio 1	Walsden South
96.3	Aire FM	Leeds	97.4	Cool FM	Belfast	98.0	Radio 1	Wharfedale
96.3	Essex FM	Southend	97.4	Fox FM	Banbury	98.1	Radio 1	Barnstaple
96.3	GWR	Bristol	97.4	Gold Radio	Shaftesbury	98.1	Radio 1	Blaenavon
96.3	Marcher Coast FM	North Wales	97.4	Hallam FM	Sheffield	98.1	Radio 1	Cwmafan
96.3	Q96	Paisley	97.4	Moray Firth	Inverness	98.1	Radio 1	Idle
96.4	BRMB	Birmingham	97.4	Q103	Newmarket	98.1	Radio 1	Plympton
96.4	CFM	Carlisle	97.4	Red Dragon FM	Newport	98.1	Radio 1	Pontop Pike
96.4	Downtown	Limavady	97.4	Red Rose Rock	Preston	98.1	Radio 1	Rothsay
96.4*	Eagle*	Guildford	97.5	Borders	Berwick-on-Tweed	98.1	Radio 1	Skrraig
96.4	Gemini FM	Torbay	97.5	Heartland FM	Ptlochry/Aberfeldy	98.1	Radio 1	Upperton*
96.4	SGR	Bury St. Edmunds	97.5	Mercury FM	Crawley/Horsham	98.2	Radio 1	Berwick-on-Tweed
96.4	Signal Cheshire	Congleton	97.5	Ocean FM	Portsmouth	98.2	Radio 1	Bow Brickhill
96.4	Swansea Sound	Swansea	97.5	Pulse FM	Bradford	98.2	Radio 1	Llangeinor
96.4	Tay	Perth	97.5	West Sound	Ayr/Girvan	98.2	Radio 1	Ridge Hill
96.5	GWR	Marlborough	97.6	Chiltern FM	Luton/Dunstable	98.2	Radio 1	Rowridge
96.5	Trent FM	Mansfield	97.6	Forth FM	Edinburgh/Black Hill	98.2	Radio 1	Strachur
96.5	Wave	Blackpool	97.6	Kent	Folkestone	98.2	Radio 1	Winter Hill
96.6	Ceredigion	Lampeter	97.6	NorthSound 1	Aberdeen	98.3	Radio 1	Abergavenny
96.6	Downtown	Enniskillen	97.6	Wyvern	Hereford	98.3	Radio 1	Ardgour
96.6	Moray Firth	Speyside	97.7	Radio 1	Ballachulish	98.3	Radio 1	Belmont
96.6	Nevis Radio	Fort William	97.7	Radio 1	Bowmore (m)	98.3	Radio 1	Ben Gullipen
96.6	Northants Radio	Northampton	97.7	Radio 1	Cirencester Town	98.3	Radio 1	Blaenplwyf
96.6	Oasis	St Albans/Watford	97.7	Radio 1	Cletraval	98.3	Radio 1	Cambret Hill
96.6	Plymouth Snd	Tavistock	97.7	Radio 1	Deiniolen	98.3	Radio 1	Carmlough
96.6*	S W Sussex*	Chichester	97.7	Radio 1	Ffestiniog	98.3	Radio 1	Folkestone
96.6	TFM	Teeside	97.7	Radio 1	Grantham	98.3	Radio 1	Kirkconnel
96.7	96.7 BCR	Belfast	97.7	Radio 1	Guildford	98.3	Radio 1	Londonderry
96.7	City FM	Liverpool	97.7	Radio 1	Hastings	98.3	Radio 1	Luddenden
96.7	Kent	Wrotham	97.7	Radio 1	Llanidloes	98.3	Radio 1	Meldrum
96.7	KL-FM	Kings Lynn	97.7	Radio 1	Mallaig	98.3	Radio 1	Okehampton
96.7	Lincs FM	Grantham	97.7	Radio 1	Manningtree	98.4	Radio 1	Ballycastle
96.7	Ocean FM	Winchester	97.7	Radio 1	North Hessary Tor	98.4	Radio 1	Beacon Hill*
96.7	West Sound	Ayr/Darvel	97.7	Radio 1	Penifiler	98.4	Radio 1	Carnmoney Hill
96.8	Borders	Selkirk	97.7	Radio 1	Sandale	98.4	Radio 1	Chippenham
96.8	Radio Cymru	Wenvoe	97.8	Radio 1	Betws-y-Coed	98.4	Radio 1	Isles of Scilly
96.9	B97 Chiltern	Bedford	97.8	Radio 1	Calne	98.4	Radio 1	Penaligon Downs
96.9	Bay	Morecambe Bay	97.8	Radio 1	Knock More	98.4	Radio 1	Ton Pentre
96.9	Choice FM	Brixton	97.8	Radio 1	Nailsworth	98.5	Radio 1	Brecon
96.9	NorthSound One	Aberdeen/Durris	97.8	Radio 1	Newbury*	98.5	Radio 1	Cambridge
96.9	Signal One	Stafford	97.8	Radio 1	Pendle Forest	98.5	Radio 1	Carmarthen
96.9	Southern FM	Newhaven	97.8	Radio 1	Rheola	98.5	Radio 1	Chard
96.9	Viking FM	Humberside	97.9	Radio 1	Bressay(Shetlands)	98.5	Radio 1	Crystal Palace
97.0	2 Ten FM	Reading	97.9	Radio 1	Forfar	98.5	Radio 1	Girvan
97.0	Clyde 1	Vale of Leven	97.9	Radio 1	Lethanhill	98.5	Radio 1	Keighley
97.0	Gemini FM	Exeter	97.9	Radio 1	Lwym-Onn	98.5	Radio 1	Llangollen
97.0	Invicta FM	East Kent/Dover	97.9	Radio 1	Millburn Muir	98.5	Radio 1	Northampton
97.0	Mercia FM	Coventry	97.9	Radio 1	Ness of Lewis	98.5	Radio 1	Oban
97.0	Plymouth Sound	Plymouth	97.9	Radio 1	Rostrevor Forest	98.5	Radio 1	Todmorden
97.0	RTE 2	Clermont Carn	97.9	Radio 1	Sutton Coldfield	98.5	Radio 1	Varteg Hill
97.1*	Delta Radio*	Haslemere	97.9	Radio 1	Ullapool	98.6	Radio 1	Abertillery
97.1	Metro FM	Tyne & Wear	97.9	Radio 1	Wensleydale	98.6	Radio 1	Bath

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98.6	Radio 1	Blunsdon	99.2	Radio 1	Whalley*	100.5	Classic FM	Meldrum
98.6	Radio 1	Chesterfield	99.2	Radio 1	Whitby	100.6	Classic FM	Crystal Palace
98.6	Radio 1	Churchdown Hill	99.3	Radio 1	Barnoldswick	100.7	Century FM	North East/Bitsdale
98.6	Radio 1	Croesnew	99.3	Radio 1	Caterham	100.7	Classic FM	Arfon
98.6	Radio 1	Kendal	99.3	Radio 1	Cornholme	100.7	Heart FM	West Midlands
98.6	Radio 1	Kirkton Mailer	99.3	Radio 1	Eyemouth	100.9	Classic FM	Wrotham
98.6	Radio 1	Minehead*	99.3	Radio 1	Kinlochleven	101.0	Galaxy	Severn Estuary
98.6	Radio 1	Port Ellen (m)	99.3	Radio 1	Lyme Regis*	101.1	Classic FM	Holme Moss
98.6	Radio 1	St Thomas (Exeter)	99.3	Radio 1	Mickleham	101.1	Scot FM	Central Scotland
98.7	Radio 1	Ashkirk	99.3	Radio 1	Mynydd Pencarreg	101.3	Classic FM	Darvel
98.7	Radio 1	Bridport	99.3	Radio 1	Newhaven	101.3	Classic FM	Kilvey Hill
98.7	Radio 1	Combe Martin	99.3	Radio 1	Redruth	101.3	Classic FM	Oxford
98.7	Radio 1	Conwy	99.3	Radio 1	Saddleworth	101.5	Classic FM	Tacolneston
98.7	Radio 1	Egford Hill (Frome)	99.3	Radio 1	Stranraer	101.6	Classic FM	Great Ormes Head
98.7	Radio 1	Kingussie	99.3	Radio 1	Tacolneston	101.6*	KFM	Tonbridge (North)*
98.7	Radio 1	Larne	99.3	Radio 1	Weardale	101.6	Star FM	Slough
98.7	Radio 1	Llandrindod Wells	99.3	Radio 1	Whitehaven	101.6	Wey Valley 102	Alton/Four Marks
98.7	Radio 1	Llanfyllin	99.4	Radio 1	Beecroft Hill	101.7	Classic FM	Black Hill
98.7	Radio 1	Melvaig	99.4	Radio 1	Eitshal	101.7	Classic FM	Sheffield
98.7	Radio 1	West Kilbride	99.4	Radio 1	Fenham	101.7	Classic FM	Wenwoe
98.8	Radio 1	Aberdare	99.4	Radio 1	Grantown	101.7	Ten 17	Harlow
98.8	Radio 1	Chalford	99.4	Radio 1	Hemdean (Reading)	101.8	Century FM	North East
98.8	Radio 1	Ogmore Vale*	99.4	Radio 1	Kingswear*	101.8	Classic FM	Dover
98.8	Radio 1	Pitlochry	99.4	Radio 1	Llanddona	101.9	Classic FM	Divis
98.8	Radio 1	Pontypool	99.4	Radio 1	Llanrhaeadr-ym-M	101.9	Classic FM	Peterborough
98.8	Radio 1	Rosneath	99.4	Radio 1	Salisbury	102.0	Kiss 102	Manchester
98.8	Radio 1	Wrotham	99.4	Radio 1	Stanton Moor	102.0	Southern FM	Hastings
98.9	Radio 1	Crieff	99.5	Radio 1	Black Hill	102.0	Spire FM	Salisbury
98.9	Radio 1	Daliburgh	99.5	Radio 1	Haslingden	102.0	Wey Valley 102	Alton (Hants)
98.9	Radio 1	Fort William	99.5	Radio 1	hybridge	102.1	NECR	Invenurie
98.9	Radio 1	Haverfordwest	99.5	Radio 1	Oliver's Mount	102.2	CFM	West Cumbria
98.9	Radio 1	Holme Moss	99.5	Radio 1	Sheffield	102.2	Choice B'harn	Birmingham
98.9	Radio 1	Ilchester Crescent	99.5	Radio 1	Swingate	102.2	GWR	West Wilts
98.9	Radio 1	Keelylang Hill	99.5	Radio 1	Wenwoe	102.2	Jazz FM 102.2	London
98.9	Radio 1	Rhymney	99.6	Radio 1	Buxton	102.2	Lincs FM	Lincoln
98.9	Radio 1	South Knapdale	99.6	Radio 1	High Wycombe	102.2	Pirate FM	East Cornwall
99.0	Radio 1	Brougher Mountain	99.6	Radio 1	Morecambe Bay	102.2	SIBC	Shetland Islands
99.0	Radio 1	Durris	99.6	Radio 1	Weymouth	102.3	ZCR FM	Bournemouth
99.0	Radio 1	Hutton	99.6	Radio 1	Woolmoor	102.3	Bay	Windermere
99.0	Radio 1	Kilkeel	99.7	Radio 1	Basingstoke	102.3*	SW Sussex*	Littlehampton
99.0	Radio 1	Llandecwyn*	99.7	Radio 1	Brighton	102.4	Broadland	Norwich
99.0	Radio 1	Machynlleth	99.7*	Radio 1	Chatton	102.4	Downtown	Londonderry
99.0	Radio 1	Newton	99.7	Radio 1	Divis	102.4	Severn Sound	Gloucester
99.0	Radio 1	Ventnor	99.7	Radio 1	Dolgellau (mono)	102.4	Southern FM	Eastbourne
99.1	Radio 1	Axe Valley	99.7	Radio 1	Llandinam	102.5	CFM	Penrith
99.1	Radio 1	Darvel	99.7	Radio 1	Llandyfriog	102.5	Chyde 1	Glasgow
99.1	Radio 1	Darwen	99.7	Radio 1	Marlborough	102.5	Pulse FM	Huddersf'd/Hfax
99.1	Radio 1	Glengorm	99.7	Radio 1	Peterborough	102.6	Essex FM	Chelmsford
99.1	Radio 1	Innerleithen	99.7	Radio 1	Rumster Forest	102.6	Fox FM	Oxford
99.1	Radio 1	Kilvey Hill	99.7	Radio 1	Tullich	102.6	Orchard FM	Somerset
99.1	Radio 1	Oxford	99.8	Radio 1	Clyro	102.6	Signal One	Stoke on Trent
99.1	Radio 1	Pennar	99.9	Classic FM	Sandale	102.7	Hereward FM	Peterborough
99.1	Radio 1	Salcombe*	100.0	Classic FM	North Hessary Tor	102.7	Leeds	Keighley*
99.2	Radio 1	Bexhill	100.0	Kiss FM	London	102.7	Mercury FM	Reigate/Crawley
99.2	Radio 1	Ferndale	100.1	Classic FM	Angus	102.7	RTE 3	Clermont Carn
99.2	Radio 1	Keswick Forest*	100.1	Classic FM	Sutton Coldfield	102.8	Invicta FM	Canterbury
99.2	Radio 1	Limavady	100.3	Classic FM	Pontop Pike	102.8	Pirate FM	West Cornwall
99.2	Radio 1	Llyswen	100.3	Classic FM	Rowridge	102.8	Ram FM	Derby
99.2	Radio 1	Long Mountain	100.3	Scot FM	Central Scot	102.8	Tay	Dundee
99.2	Radio 1	Ludlow	100.4	Jazz FM 100.4	NW England	102.8	Wyvern	Worcester
99.2	Radio 1	Rosemarkie	100.5	Classic FM	Belmont	102.9	2 Ten FM	Basingstoke
99.2	Radio 1	Rosemount	100.5	Classic FM	Londonderry	102.9	Hallam FM	Barnsley

FM frequency index

102.9	Mercia FM	Leamington Spa	103.8	Radio 4	Rosneath	104.6	Radio Nan G	Oban
102.9	Q102.9	Londonderry	103.8	Radio Cymru	Llanrhaeadr-ym-M	104.6	SCR	Guildford
103.0	Gemini FM	East Devon	103.8	RTM	Thamesmead	104.6	Suffolk	Gt Barton
103.0	GWR	Bath	103.9	Cornwall	Redruth	104.7	Gloucestershire	Churchdown Hill
103.0	Metro FM	Tyne Valley/Ferham	103.9	Lancashire	Winter Hill	104.7	Island FM	Guernsey
103.0	NorthSound 1	Peterhead	103.9	Leeds	Beecroft Hill	104.7	Lincolnshire	Grantham
103.0	PiccadillyKey103	Manchester	103.9	Radio 4	Ashkirk	104.7	Minster FM	York
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103.2	Bay	Kendal	104.0	Radio Cymru	Blaenavon	104.8	SCR	Burton Down
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103.2	Red Dragon FM	Cardiff	104.1	Radio 4	Deiniolen	104.9	Radio 4	Betws-y-Coed
103.2	Sunrise FM	Bradford	104.1	Radio 4	Millburn Muir	104.9	Radio 4	Clyro
103.3	Ceredigion	Aberystwyth	104.1	Sheffield	Holme Moss	104.9	Radio 4	Haverfordwest
103.3	Clyde 1	Rosneath	104.2	Cumbria	Windermere	104.9	Radio Cymru	Ferndale
103.3	FM103 Horizon	Milton Keynes	104.2	Kent	Swingate	104.9	Radio Cymru	Llandecwyn*
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103.5	Radio 4	Ffestiniog	104.3	Radio Cymru	Abertillery	105.4	Melody	London
103.5	Radio 4	Larne	104.3	Radio Cymru	Llangollen	105.8	Virgin FM	London
103.5	Radio 4	Varteg Hill	104.3	Radio Nan G	Eitshal	106.2	Heart 106.2	London
103.5	Radio 4	West Kilbride	104.3	Radio Nan G	Mallaig	107.6	Channel Travel	M20/Channel ports
103.5	Radio Cymru	Abergavenny	104.3	Radio Nan G	Penfiler			
103.5	Radio Nan G	Glengorm	104.3	Wiltshire Snd	Naish Hill			
103.5	Southern FM	Brighton	104.3	York	Woolmoor			
103.5	Wiltshire Snd	Newton Barrow	104.4	Berkshire	Reading			
103.6	Northampton	Geddington	104.4	Newcastle	Fenham			
103.6	Radio 4	Croeserw	104.4	Norfolk	Gt. Massingham			
103.6	Radio 4	Dolgellau (mono)	104.4	Radio 4	Conwy			
103.6	Radio 4	Llanddona	104.4	Radio 4	Llandyfriog			
103.6	Radio 4	Machynlleth	104.4	Radio 4	Llyswen			
103.6	Radio 4	Rosemarkie	104.4	Radio Nan G	Kinlochleven			
103.6	Radio 4	Stranraer	104.5	3CR	Bow Brickhill			
103.6	Radio Cymru	Long Mountain	104.5	Derby	Sutton Coldfield			
103.6	Radio Nan G	Bowmore (m)	104.5	Lancashire	Lancaster			
103.6	Wiltshire Snd	Blunsdon	104.5	Radio 4	Kirkton Mailer			
103.7	Channel 103	Jersey	104.5	Radio 4	Rumster Forest			
103.7	CWR	Lark Stoke	104.5	Radio 4	Tullich			
103.7	Marx	Jurby	104.5	Radio Cymru	Cwmafan			
103.7	Radio 4	Myrdd Pencaerreg	104.5	Radio Cymru	Porth			
103.7	Radio Cymru	Ogmore Vale*	104.5	SCR	Heathfield			
103.7	Radio Cymru	Pennar	104.6	Bristol	Bath			
103.7	Radio Nan G	Ballachulish	104.6	Hereford/Worcs	Kidderminster			
103.7	Radio Nan G	Cletraval	104.6	Radio 4	Carmlough			
103.7	York	Aklam Wold	104.6	Radio 4	Carmel			
103.8	3CR	Zouches Farm	104.6	Radio 4	Eyemouth			
103.8	Dorset FM	Bincombe Hill	104.6	Radio 4	Penmaen Rhos			
103.8	Nottingham	Mapperley Ridge	104.6	Radio Cymru	Ebbw Vale			
103.8	Radio 4	Llandrindod Wells	104.6	Radio Cymru	Llangeinor			

* stations, transmitters or frequencies marked with an asterisk (*) are proposed, but are not yet in service

weather forecasts

Farming Forecasts

Radio 4: 0610hrs weekdays, Farming Today, includes a 5 day forecast for farmers and growers.

Shipping Forecasts (see map of shipping forecast areas on page 77)

Radio 4: 0555 (long wave only), 1355, 1750, 0048hrs

Other Forecasts

Radio 2: half-hourly 0500-0900, then 1300, 1700, 1800, 1900, 2200 and 2400hrs

Radio 3: 0555hrs

Radio 4: 0603, 0655, 0755, 0858, 1255, 1755, 2159, 0030hrs

Classic FM: On the hour, included with the news.

travel information

General Information

Radio 1: Included in news reports

Radio 2: 0640, 0720, 0750, 0820, 0850, 1620, 1650, 1720 and 1755hrs

Radio 4: Included in news reports

Classic FM: Traffic and travel reports at 15 mins past the hour.

Local Information

BBC Stations: most operate local travel round ups at regular intervals between 0600-0900hrs and 1700-1900hrs. There is no standard time for for all BBC local stations, so contact your local station for more information. In addition, they all give travel flashes, some of which may be incorporated into the RDS network.

Independent Stations

Most run frequent travel reports between 0615-0915 and 1615-1845hrs.

news

National

Radio 1: News on the half-hour - headlines 0600, 0700, 0800, 1700 and 1800hrs.

Radio 2: News on the hour - headlines at 0530, 0630, 0730, and 0830hrs.

Radio 3: 1300 & 0030 - summaries at 0600, 0700, 0800, 1800 and 1900hrs.

Radio 4: Every half hour 0600-0900, then every hour 1000-1900, then 2200 and midnight.

Radio 5: News bulletins and sport headlines on the hour; news summaries and sports bulletins on the half-hour.

Classic FM: News on the hour with half hour programme 'Newsdesk' 1800-1830hrs.

Local

Both BBC and independent stations offer a mix of local and national news. Usually however, this is on the hour and half hour during peak times, and just on the hour at other times.

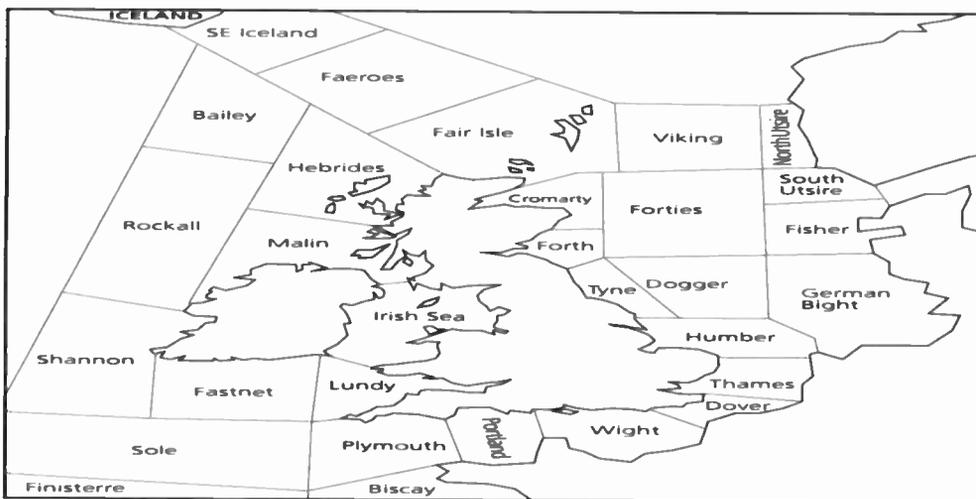
Sports News

Radio 5: See Radio 5 above.

time signals

Radio 3: Weekdays at 0600, 0700 and 0800hrs. Sundays at 7am

Radio 4: Weekdays wherever programming makes it possible, every hour on the hour, with Big Ben at 1800, 2200 and 0000hrs.



Shipping forecasts - Godfrey Manning explains what they mean.

Above you'll find a map of the sea areas and on page 76 the times when shipping forecasts can be heard. The forecast is in four parts.

Gale Warnings

The time of issue is Greenwich Mean Time, same as clock time in the winter but one hour less than shown on your clock in summer. For each sea area as shown on the map, the wind force is given if it is at least 8 (gale). This is the Beaufort scale, 0 is flat calm, 3 a gentle breeze, 9 is severe gale, etc. Sometimes only a part of a sea area is affected (eg "Viking in north").

General Synopses

This tells you about the air pressure, visible on TV weather maps as isobar lines. The pressure is either low or high in each sea area. The number (eg 1003) is the precise pressure measured in millibars. Many domestic barometers have a millibar scale as well as inches of mercury but 980 would be down in the "stormy" part of your barometer's dial, 1000 is in the middle and 1040 is exceptionally high. The pressure system can move, either in a direction of the compass (eg north-west) or to another sea area. A low pressure system can fill, to become weaker and of medium pressure.

Forecast

Again by sea area, the wind direction is stated as the point on the compass from where the

wind is coming. If it's south-east, and you face that direction, the wind will hit you square on the nose! Veering is when the wind direction will become more clockwise, eg south veering west (hand of clock going from 6 o'clock to 9 o'clock). Backing is a change in the opposite direction. The force comes next, and it might increase or reduce. Cyclonic is a wind going anticlockwise round an area of low pressure. The significant weather is self-explanatory, but examples include showers, rain, hail, snow showers or snow, any of which could be wintry, squally or thundery if you're unlucky. Words like: recent, becoming, perhaps, later, etc, give you an idea of expected changes. Lastly, visibility is typically poor, moderate or good.

Coastal station reports

Not all report at the same time. Some stations are on light ships equipped with automatic weather sensors. The wind is simply direction and force (eg north six) and then comes the significant weather (see above). Exact visibility is given in miles. Finally the barometer's millibars are stated and you are told if this pressure will rise or fall and, if so, how slow or fast this change will happen.

Next time you hear about gales, spare a thought for the fishermen! ▲

useful information

Ceefax information

BBC Engineering Information

The BBC provide up-to-the-minute details about transmitters on Ceefax (BBC 2) on page 698.

Frequency guides

World Radio and TV Handbook 1995

£15.95 from Billboard Limited, 23 Ridgmount Street, London WC1E 7AH Tel. 0171 323 6686 Alternatively, from Short Wave Magazine's book ordering service. tel 01202 659930 The 1996 edition should be available in Jan 1996.

Passport to World Band Radio 1996

Annual publication 'giving the information to explore and enjoy the world of broadcast band radio'. Features on stations, receiver reviews etc.. £14.50 - available by mail order from Short Wave Magazine's book ordering service. tel 01202 659930

Guide de la Radio.

Published by Telerama.FF30. Lists French stations for each of the major villages, towns and cities, as well as listing FM frequencies along their autoroutes. Available from Téléràma S.A., 129 Boulevard Maiesherbes, 75017 Paris. tel 0033 1 48884500.

The Radio Authority Pocket Book

Information about Ind. Radio stations in the UK. Free from the Radio Authority.

Radio Transmitting Stations

Lists all domestic BBC radio stations in service Free from BBC Engineering Information

General Books

The Radio Companion by Paul Donovan. £12.99.

Encyclopedia covering radio. 'A treasure house of radio nostalgia'. Published by Harper and Collins.

Magazines and Periodicals

All Ears

Radio fanzine. Interesting articles, news, views and comment. Available quarterly (or thereabouts). £6 (payable to *All Ears*) for the next 4 issues from: All Ears, 68 Bankside Lane, Bacup, Lancs OL13 8HJ

Offshore Echo's

Covers the offshore pirate scene. Much looking back at the good-old-days of Caroline, Laser 558 etc. Available at £18 per year (5 issues) from PO Box 1514, London W7 2LL

BBC Worldwide

A BBC monthly magazine. Gives frequencies, times and programme details for the World Service. Sometimes found in newsagents. £2.20. Subscriptions PO Box 76S, Bush House, Strand, London WC2B 4PH or tel 0171 257 2211

Radio Times

Gives the best radio coverage of all the TV/Radio guides. Published in 7 regional editions. Daily coverage for the region's BBC National and local stations, as well as Classic FM, Virgin and World Service programmes. Published weekly costs 68p from newsagents.

Short Wave Magazine

News, information and features to interest the short wave enthusiast. Available monthly from newsagents at £2.25 or by subscription at £25 pa from PW Publishing, Arrowsmith Court, Station Approach, Broadstone, Dorset BH18 8PW

Practical Wireless

Technical articles on radio, satellite, circuit diagrams etc.. Available monthly from the newstands at £2.25 or by subscription at £25 pa from PW Publishing, Arrowsmith Court, Station Approach, Broadstone, Dorset BH18 8PW

Radio Review

Monthly newsletter with news of Radio Caroline, UK radio, Dutch, Irish and Satellite radio. Send a large s.a.e. to Dept RLG, PO Box 46, Romford, Essex RM1 2QE for a free sample issue and subscription details.

Broadcast

'The Weekly newspaper of the Television and Radio Industry'. Published by EMAP. Covers TV, but also looks at radio. Costs £1.80. Tel 01732 770823.

The Radio Magazine

Weekly newsletter aimed at the radio industry. Station news and info. Details of appointments within the industry and job vacancies. Costs £60 per year. Contact The Radio Magazine, Crown House, 25 High Street, Rothwell, Northants NN14 6AD.

Satellite Times

Monthly magazine listing amongst other things satellite radio stations. Costs £2. On sale monthly and widely available from newsagents.

Organisations / Clubs

Voice of the Listener and Viewer

A non-profit making society to support quality broadcasting. Members receive a quarterly newsletter. Membership £10 per year, from Voice of the Listener and Viewer, 101 King's Drive, Gravesend, Kent DA12 5BQ

Association of Christians in Local Broadcasting
ACLB produces a quarterly newsletter *Crosstalk*. Contact Jeff Bonser PO Box 124, Westcliff on Sea, Essex SS0 0QU. te. 01702 348369

The International Short Wave League

The ISWL is a non-profit making organisation with about 700 members. It promotes the hobbies of amateur radio and short wave listening, and publishes a monthly journal *Monitor*. Info pack is available for £1. Contact The Secretary ISWL, 10 Clyde Crescent, Wharton, Winsford, Cheshire CW7 3LA

Medium Wave Circle

Club for those interested in medium wave DXing. The club publishes a magazine *Medium Wave News*. Contact Harold Emblem, 137A Hampton Road, Southport PR8 5DY

British DX Club

126, Bargery Road, London SE6 2LR

World DX Club

17 Motpur Drive, Northampton NN2 6LY

The Campaign for AM Stereo

Group promoting the introduction of AM Stereo to the UK. Contact David Duckworth, The Old Post Office, Charlton All Saints, Salisbury SP5 4HQ.

The European Satellite User Group

TESUG gives up-to-date information and advice about satellite to its members. A monthly newsletter gives up-to-date information. Contact The European Satellite User Group, PO Box 576, Orpington, Kent BR6 9WY. tel 01227 265222 fax 01689 602009.

The Community Radio Association

An organisation promoting Community Radio in the UK. Contact The Community Radio Association, 15 Paternoster Row, Sheffield. tel 0114 279 5219

MW Conversion

On some older radios, the dials for the medium wave and long wave bands are marked in wavelengths (metres) rather than frequencies. To calculate a wavelength from a frequency, use the following formula and round-up the result to the nearest whole number.

$$\frac{300,000}{\text{frequency in kHz}} = \text{wavelength in metres}$$

Acknowledgements

This year in particular we would like to thank Nick Astley-Cooper of the Radio Authority, for kindly supplying much invaluable frequency information, Allan Lafferty of BBC Engineering information for permission to copy the BBC's 'Frequency Finder' maps and to Gill Woodyear and Geoffrey Player for all their work on the maps. Thanks also to the following for advice or information: Guy Barnish, K Bateman, J Batten, John Bicknell, E Buck, Paul Burbidge, W Carr, A Childs, D Clark, Dick Collins, S Coulstock, Philip Dibb, Ross Dixon, P Eastwood, G Ellinger, John Ellis, Michael Gale, John Green, John Leak, D Lond, Farhan Masani, Adrian Martin, L Mason, Jon Maxfield, Tracy Mullins, Michael Pluck, Bob Rendle, Nicholas Richardson, Lynne Seddon, R Sharpe, D Sixsmith, D Stark, Tony Stephens, John Thorpe, John Thursby, David Wilson, Andrew Woodger, and Ray Woodyear. My apologies if I have missed you out!

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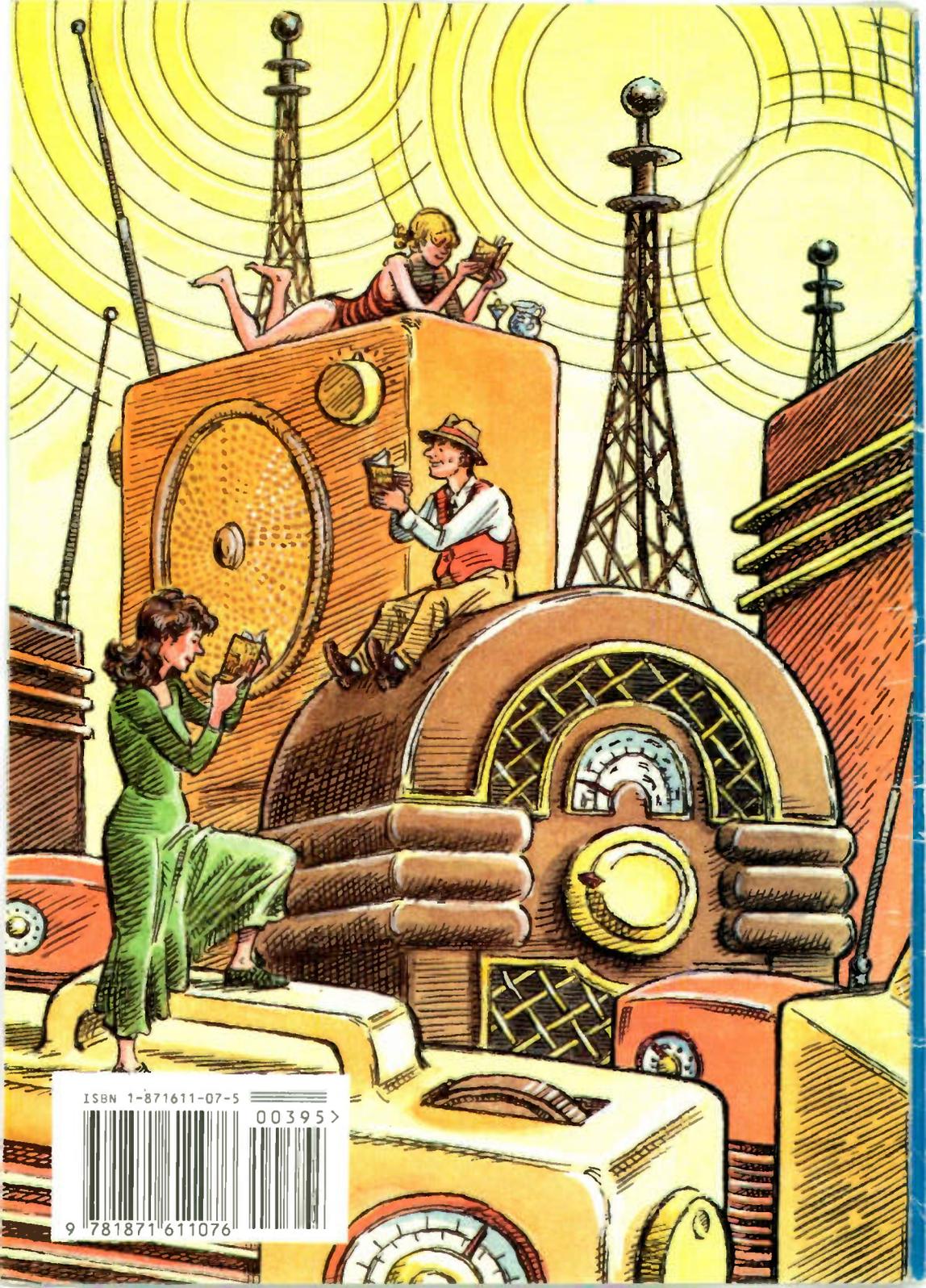
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