Manchester Airport Departure Routes Information Pack

NORTHERLY DEPARTURES IN WESTERLY OPERATIONS (ROUTES SONEX1R AND SONEX1Y)

Flying over: Mobberley / north Knutsford / Mere / Rostherne / Little Bollington / Partington

This document explains how we operate and provides some information about the number of aircraft and passengers currently flying from Manchester Airport.
Manchester Airport – the largest outside the south east – delivers £1.7bn in the north west economy.

ABOUT YOUR AIRPORT

Manchester Airport officially opened on 25 June 1938 and is today owned by the 10 Councils of Greater Manchester and Industry Funds Management (IFM), with three airports in the group:

- MAG Manchester Airport
- MAG East Midlands Airport
- MAG London Stansted Airport

1939 saw 7600 passengers per year... today it’s grown to 28m

2017 Manchester Airport joined the list of top 20 European airports.

The Airport supports the employment of 45000 jobs in the region with 24500 people directly employed on our site.

Supporting over 14900 children in education every year. Manchester Airport teacher resources for key stages 1, 2 and 3 are available at www.manchesterairport.co.uk/education.

Manchester Airport Departure Routes Information Pack – 2018 data

FLYING TO 210 DESTINATIONS

With new flights to Seattle and Addis Ababa.

OVER 70 AIRLINES

AND 200 ON-SITE OPERATORS

WANT TO KNOW MORE?

IN 2001 A SECOND RUNWAY WAS ADDED

Noise contours are common for measuring noise around other transport routes such as roads and railways.

Supporting Community Trust Fund groups with over £3.5 million in grants since 1997.

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HOW WE OPERATE

USE OF RUNWAYS

Manchester Airport has two runways. We use both runways during the daytime, but planning permission does not allow us to use Runway 2 between 10pm and 6am, unless we are doing maintenance on Runway 1.

As the number of flights has increased, we have needed to extend the times during which we use both runways. This happened in July 2018. The changes will reduce delays and increase efficiency. For more information about this see our web page at www.manchesterairport.co.uk/dualrunwayuse.

We have a Night Noise Policy which means that we do operate at night, but flights are restricted. You can read more about our Night Noise Policy at www.manchesterairport.co.uk/nightnoise.

<table>
<thead>
<tr>
<th>DAYS</th>
<th>TIMES WHEN TWO RUNWAYS USED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Summer season</td>
</tr>
<tr>
<td>2 April to 9 July 2018</td>
<td>From 9 July 2018</td>
</tr>
<tr>
<td>MONDAY TO FRIDAY</td>
<td>6.30am to 10.30am and 1pm to 8pm</td>
</tr>
<tr>
<td>SATURDAY</td>
<td>6.30am to 10.30am and 1pm to 4pm</td>
</tr>
<tr>
<td>SUNDAY</td>
<td>1pm to 5pm and 6am to 9.30am</td>
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</tbody>
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RUNWAY DIRECTION

For safety reasons, aircraft must land and take off into the wind. At Manchester Airport the wind usually blows from the west, meaning aircraft approach from the east (over Stockport and Heald Green) and take off to the west (towards Knutsford). This is known as ‘westerly operations’.

Sometimes the wind direction changes and moves to the east. In this case, aircraft approach from the west (over Knutsford) and take off to the east (over Heald Green and Stockport). This is known as ‘easterly operations’.

On average, between 70% and 80% of our departures each year will be westerly operations. In 2018, 76% of flights were westerly operations and 24% of flights were easterly operations.

The wind direction may change several times in a day, so we may change our direction of operations to reflect this. The table above shows the percentage of movements in each direction over the last eight years.
**Routes DEPARTING to the WEST**

There are four routes with weekly departures shown on this diagram. These are used for an average 76% of our flights. In 2018 there were 292,137 departures on route SONEX1R (Runway 1) and route SONEX1Y (Runway 2) – 38% of all weekly departures.

Our information is based on the most recent complete year, which was 2018, and our busiest month in that year (August), compared to our quietest month (February).

The following graph is based on the combined information from routes SONEX1R and SONEX1Y heading west and north travelling to northern Europe and the Far East.

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**Number of Days WESTERLY DEPARTURES used BY YEAR**

<table>
<thead>
<tr>
<th>Year</th>
<th>Flights</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>3,045</td>
</tr>
<tr>
<td>2013</td>
<td>3,046</td>
</tr>
<tr>
<td>2014</td>
<td>3,047</td>
</tr>
<tr>
<td>2015</td>
<td>3,048</td>
</tr>
<tr>
<td>2016</td>
<td>3,049</td>
</tr>
<tr>
<td>2017</td>
<td>3,050</td>
</tr>
<tr>
<td>2018</td>
<td>3,051</td>
</tr>
</tbody>
</table>

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**Position of Aircraft along Routes SONEX1R and SONEX1Y**

- Currently aircraft navigate using navigational equipment on the ground close to and around our runways. A series of instructions will navigate the aircraft along the whole route (for example, to fly straight ahead for a set distance and then turn at a particular point to a compass bearing of ...).

- Outwardly the accuracy with which an aircraft navigates depends on the following:
  - The use of the aircraft.
  - The height the aircraft is above the ground.
  - The location of the Savanna base station.

- The map opposite shows the general position and spread of flights using the SONEX1R and SONEX1Y routes in August 2018. The colours show the position of aircraft on the route in August 2018. The key shows how frequently areas were flown over during August 2018.

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**Changes in the Future**

**AirCraft**

- Over time, airlines will buy new aircraft. The improved engines are quieter and more efficient. The new airplane is able to climb quicker and with less friction, significantly reducing noise and emissions. All of this is beneficial to communities that the aircraft fly over.

**Modernising AIRspace**

- Aircraft using the SONEX1R and SONEX1Y routes range from small 10-seat aircraft up to the larger 400-seat aircraft. The Aircraft using the SONEX1R and SONEX1Y routes range from small 10-seat aircraft up to the larger 400-seat aircraft. The maximum number of departures on a single day in August was 139.

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- During August there were 25 departures during the morning peak hours of 7am to 9am.

- In February there were 226 departures during the morning period of 5am to 10am.

- The data below shows the height of aircraft on the SONEX1R and SONEX1Y routes at the places marked on the routes. The data shows the concentration of aircraft in the centre of the routes and the height above sea level.

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**FutureAirspace.**

- The changes relate to three levels of airspace.
  - 10,000 feet at night from 11pm to 7am.
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MEASURING NOISE

Generally, the closer that you live to an airport and a departure or arrival route, the more noise you will hear.

‘Noise contours’ give an indication of general noise levels and show an average noise reading over a set period of time. They use actual information on the position, number, heights and noise levels of arrivals and departures to and from Manchester. Noise contours look like a series of concentric rings, like in a tree trunk. The closer the rings are to the airport, the louder the noise is. This is represented by a number. Current Government guidelines recommend noise insulation such as high performance glazing or loft insulation at 63 decibels. If you live in this area, you can apply for help with this at www.manchesterairport.co.uk/soundinsulation.

Noise contours are common for measuring noise around other transport routes such as roads and railways.

WANT TO KNOW MORE?

There is a booklet like this one for each of our departure and arrival routes. Extra information is already available on our website in a range of formats including films and downloadable information sheets. You can see them at www.manchesterairport.co.uk/runwaydatasheet.

We will need to consult widely about changes to airspace in the future. If you would like to be on a mailing list to make sure you receive information direct, please email future.airspace@manairport.co.uk.

If you would like to talk to us you could:

– phone our Freephone number (08000 967967);
– send an email to community.relations@manairport.co.uk;
– come to an outreach session (details are on our website at www.manchesterairport.co.uk/outreach).

You can watch aircraft movements and look at heights and positions over the ground using webtrak, which is on our website at www.manchesterairport.co.uk/webtrak.

Crystal Mark 22702
Clarity approved by Plain English Campaign

manchesterairport.co.uk