Manchester Airport Departure Routes Information Pack

SOUTH TURN IN EASTERLY OPERATIONS (ROUTE LISTO2S)

Flying over: Heald Green / Cheadle / Cheadle Hulme / Bramhall / Woodford / Mottram / Prestbury / Henbury

This document explains how we operate now and provides some information about the number of aircraft and passengers currently flying from Manchester Airport.
Manchester Airport Departure Routes Information Pack – 2017 data

### 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 four airports in the group.

- **1939** saw 7600 passengers per year… today it’s grown to **28m**
- **2017** Manchester Airport joined the list of top 20 European airports.

### FLYING TO 210 DESTINATIONS

In 60 countries including China, USA, the Middle East and Europe.

### THE AIRPORT IN NUMBERS

- **100 STANDS**
- **OVER 100 AIRLINES**
- **200 ON-SITE OPERATORS**

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

### SUPPORTING THE COMMUNITY

- 6411 volunteer hours in the community in 2016/2017.
- Our Airport Academy helped 469 people into work on our site.
- Community Trust Fund supporting community groups with over £3million in grants since 1997.

### ABOUT THE RUNWAYS

Manchester Airport has two runways. We use both runways during the daytime, but planning permission does not extend the times during which we use both runways.

- **RUNWAY 1**
- **RUNWAY 2**

As the number of flights has increased, we need to do maintenance on Runway 1.

### TIMETABLE WHEN TWO RUNWAYS USED

- **2 April to 9 July 2018**
  - 6am to 9pm
  - 6.30am to 10.30am
  - 1pm to 8pm

### RUNWAY DIRECTION

<table>
<thead>
<tr>
<th>YEAR</th>
<th>EASTERLY OPERATIONS</th>
<th>WESTERLY OPERATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2011</td>
<td>20%</td>
<td>80%</td>
</tr>
<tr>
<td>2012</td>
<td>20%</td>
<td>80%</td>
</tr>
<tr>
<td>2013</td>
<td>20%</td>
<td>80%</td>
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<tr>
<td>2014</td>
<td>20%</td>
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<td>2015</td>
<td>20%</td>
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<td>2016</td>
<td>20%</td>
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</tr>
<tr>
<td>2017</td>
<td>20%</td>
<td>80%</td>
</tr>
</tbody>
</table>

### DESTINATIONS

Supporting over 8000 children in education every year. Manchester Airport teacher resources for key stages 1, 2 and 3 are available at www.magworld.com/education.

Manchester Airport – the largest outside the South East – delivers **£1.7bn** in the North West economy.
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 need to extend the times during which we use both runways. This will happen gradually from April until 9 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>SUMMER SEASON</td>
<td>2 April to 9 July 2018 From 10pm to 6am, unless maintenance is required.</td>
</tr>
<tr>
<td>MONDAY TO FRIDAY</td>
<td>6.30am to 10.30am and 1pm to 8pm 6am to 9pm</td>
</tr>
<tr>
<td>SATURDAY</td>
<td>6.30am to 10.30am and 1pm to 4pm 6am to 4pm</td>
</tr>
<tr>
<td>SUNDAY</td>
<td>1pm to 5pm and 6am to 9.30am 1pm to 9pm</td>
</tr>
</tbody>
</table>

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 2017, 85% of flights were westerly operations and 15% of flights were easterly operations.

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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.
There are three routes with easterly departures shown on this diagram. These are used for an average of 22.5% of our flights. In 2017 there were 5102 departures on the LISTO25 route – 33% of all easterly departures. Our information is based on the most recent complete year, which was 2017, and our busiest month in that year. May was our busiest month in 2017 with the route LISTO25 used for 1215 departures using the LISTO25 route.

- The accuracy with which an aircraft navigates depends on the following:
  - The size of the aircraft
  - What technology the aircraft has on board
  - Flight conditions
  - How the pilot interprets instructions
  - The map opposite shows the general position and spread of flights using the LISTO25 route in May 2017. At the beginning of the departure, the aircraft is dark blue. As it becomes higher above the ground, the colour changes to light blue (3000 feet) and finally to green at 5000 feet, which is the highest point at which the aircraft must stay on the route.

- The direction of landing and taking off depends on the wind direction.

- The maximum number of departures on a single day was just 122.

- The comparison to last year was 379 departures during the morning peak hours of 6am to 8am compared to just 21 during the night period from 11pm to 6am.

- The graphics below show the height of aircraft on the LISTO25 route at the places marked on the route. They show the concentration of aircraft in the centre of the route and the height above sea level. You can see some aircraft from one airline turned south outside of the LISTO25 route. Our environment department noticed this and working together with the airline have resolved the problem.

- Aircraft currently leave the airport on one of two runway routes in the USA and Scotland.

- Aircraft take off and land to the north.

- There is more information about arriving aircraft in our arrivals data sheet www.manchesterairport/runwaydatasheet.
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 all 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 community.relations@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; or
– come to an outreach session (details are on our website).

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.