Manchester Airport Departure Routes Information Pack

WESTERLY DEPARTURES IN WESTERLY OPERATIONS (ROUTES EKLADIR AND EKLADIY)

Flying over: Mobberley / north Knutsford / Mere / Over Tabley / Antrobus / Lower Whitley

This document explains how we operate and provides some information about the number of aircraft and passengers currently flying from Manchester Airport.







Manchester Airport Group is the largest UK owned airport group with three airports.



MAG **East Midlands**

MAG London Stansted

Manchester Airport officially opened on 25 June 1938 and is today owned by the 10 Councils of Greater Manchester and Industry Funds Management (IFM).

CARBON ACCREDITATION

In 2016, Manchester Airport became the first UK airport to be awarded Level 3+ carbon neutral status. In 2012 we achieved ISO 14001.



VOLUNTEERING

9,270 volunteer hours in the community, from 558 volunteers, in 2018/2019.

COMMUNITY TRUST FUND

The airport has supported community groups with over £3.6 million in grants since 1997.



BEST UK AIRPORT

Manchester Airport was voted the Best UK Airport in the Travel Weekly Globe Travel Awards 2020.

1939 saw 7,600 passengers per year...

...today it's grown to



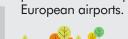
FLYING TO 220 DESTINATIONS



With new flights to Dhaka, Beijing, LA, Boston and Shanghai, from over 60 Airlines.

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









PASSENGERS

visiting Manchester Airport station have access to:

- 140 trains a day to over 100 destinations;
- 440 busses a day;
- 132 coaches a day; and
- City Centre tram every 12 minutes.



Supporting over 13,000 children in education every year. A new AeroZone school resource opens in 2020. For more information see www.manchesterairport.co.uk/aerozone.











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.

	TIMES WHEN TWO RUNWAYS USED
DAYS	Summer season from 30 March 2020
MONDAY TO FRIDAY	6.15am to 8pm
SATURDAY	6.15am to 4pm
SUNDAY	6.15am to 9.30pm and 1pm to 8pm

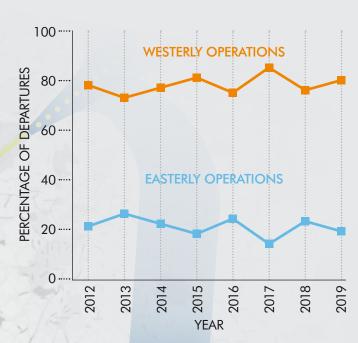
LANDING PATHS

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 2019 80% of flights were westerly operations and 20% of flights were easterly operations.

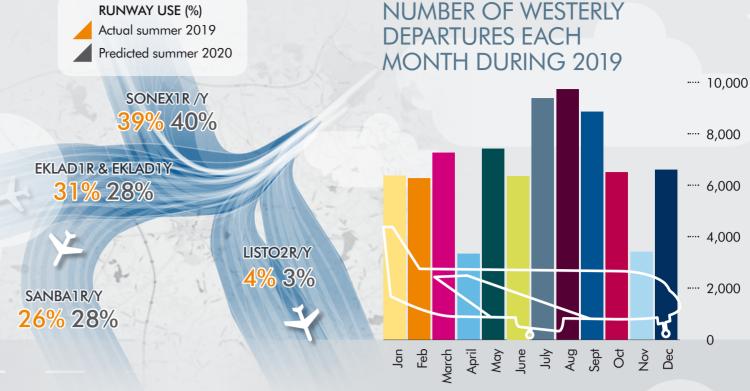


The wind direction may change several times in a day, so we may change our direction of operations to reflect this. The table above shows the percentage of movements in each direction over the last eight years.



ROUTES DEPARTING TO THE WEST

- There are four routes with westerly departures shown on this diagram. These are used for an average of 80% of our flights. In 2019 there were 24,842 departures on route EKLAD1R (Runway 1) and route EKLAD1Y (Runway 2) - 31% of all westerly departures.
- Our information is based on the most recent complete year, which was 2019, and our busiest month in that year (August), compared to our quietest month (April).
- The following graphics focus on the combined information from routes EKLAD1R and EKLAD1Y heading west and north travelling to the USA and Scotland.



During August there were...



NUMBER OF DAYS WESTERLY DEPARTURES USED BY YEAR



Maximum 300 -**TOTAL NUMBER** Minimum OF DEPARTURES 250 -PER HOUR IN **AUGUST 2019** 200 -150 -100 -50 0 HOURS (midnight to 11pm)

In 2019, August was our busiest month of westerly operations on the EKLAD1R and EKLAD1Y route, when there were.. departures

Runway use depends on the wind direction, with westerly departures on **EKLAD1R or EKLAD1Y** routes for 31 days during August

AUGUST '19 APRIL '19

of departures on a single day in August was

The maximum number

departures during the morning peak hours of 10am to noon compared with just... compared with just...

departures during the morning period of 10am to noon

In April there

...while April was our quietest month.

...and with westerly operations on the EKLAD1R or EKLAD1Y routes on 15 days in April.

MAG

..compared with

WESTERLY / WESTERLY

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ANTROBUS

during the night from 11pm to 6am.



POSITION OF AIRCRAFT ALONG ROUTES EKLADIR AND EKLADIY

 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...).

The accuracy with which an aircraft navigates depends on the following.

- The size of the aircraft
- The weight of the aircraft
- What technology the aircraft has on board
- Weather conditions

The map opposite shows the general position and spread of flights using the EKLAD1R and EKLAD1Y routes in August 2019. The colours show the position of aircraft on the route in August 2019. The key shows how frequently areas were flown over during August 2019.

CHANGES IN THE FUTURE

Over time, airlines will buy new aircraft. The improved engines are quieter and more efficient. The new sleeker plane 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

In February 2017, the Department for Transport published 'Upgrading UK Airspace'. This document reviewed how modern aircraft can use the new technology on board for greater efficiency and reduced noise. The current departure routes for aircraft are based on navigation equipment on the ground. Modern aircraft can replace this method of navigation by using satellites. Satellite-based routes enable aircraft to more accurately follow the centre lines of departure routes while maintaining safety.

The Government has said that all UK airports must make these changes, and in December 2017 the CAA issued guidance on how airports should manage change in a document called Airspace Design CAP1616. This is available on the CAA website.

The first stage in the modernisation process is for an airport to issue a Statement of Need to the CAA for them to approve the start of a change process. We did this in March 2019 so that the CAA could give approval for change. In 2019 we engaged with communities, through focus groups and an online questionnaire, to develop our Design Principles. The CAA have approved these and you can see them, and read about how we developed them, in our Executive Summary document at www.manchesterairport.co.uk/futureairspace. During 2020 we will follow the process set out in CAP1616 to continue with Stage 2 (developing and assessing options for changes to flight paths).

A review of upper airspace (above 24500 feet) is taking place. This will reposition some of the main airways over the UK to increase efficiency and improve the customer experience with less time in hold, more timely arrivals and departures and reduced emissions. This review process will also enable us to create the best possible design to make sure we can achieve Manchester Airport's potential by securing further routes to destinations around the world. This will create more jobs and boost the region's economy.

The changes relate to three levels of airspace.

- High level - over 7000 feet where aircraft

are travelling to or from their final destination

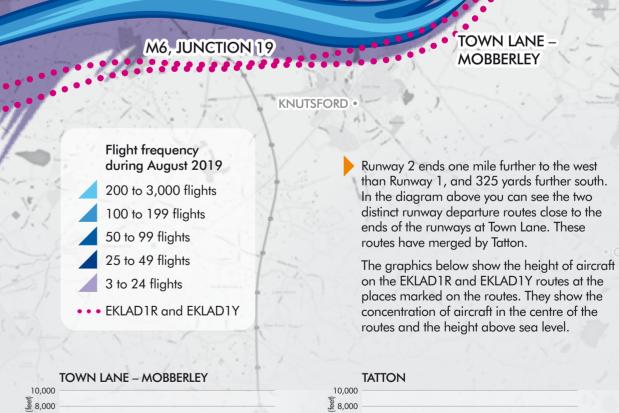
- Arrival below 7000 feet heading to the
- final destination airport - Departure - between 0 and 7000 feet leaving
- the airport to join the high level routes
- Changes that are above 7,000 feet will be managed by

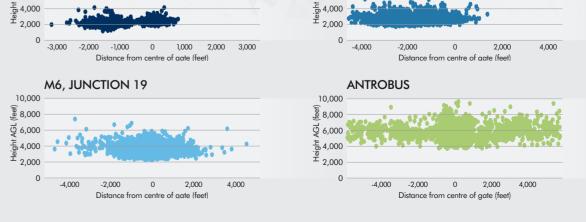
ARRIVALS

Aircraft currently approach the airport they are landing at and wait for an instruction to land. Ideally, the approach is a continuous descent to land as this is fuel efficient and quiet.

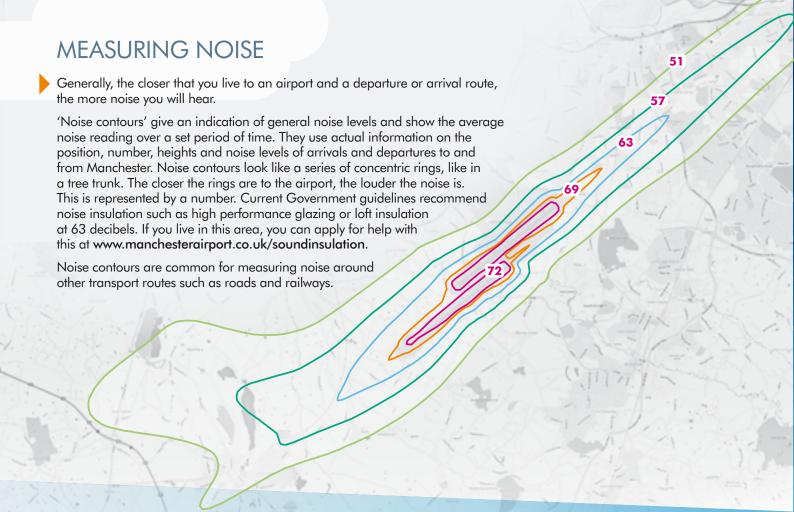
If aircraft need to wait, they go into a 'holding pattern' away from the airfield. As a part of this project, NATS will examine if this is the best way to control aircraft approaching the airfield before they land.

There is more information about arriving aircraft in our arrivals data sheet. You can find this at www.manchesterairport.co.uk/ runwaydatasheet.





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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.



