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 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.



East Midlands Airport

London Stansted
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).

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.



GROUND TRANSPORT

THE **5.5**m 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.



A SECOND RUNWAY WAS ADDED









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.

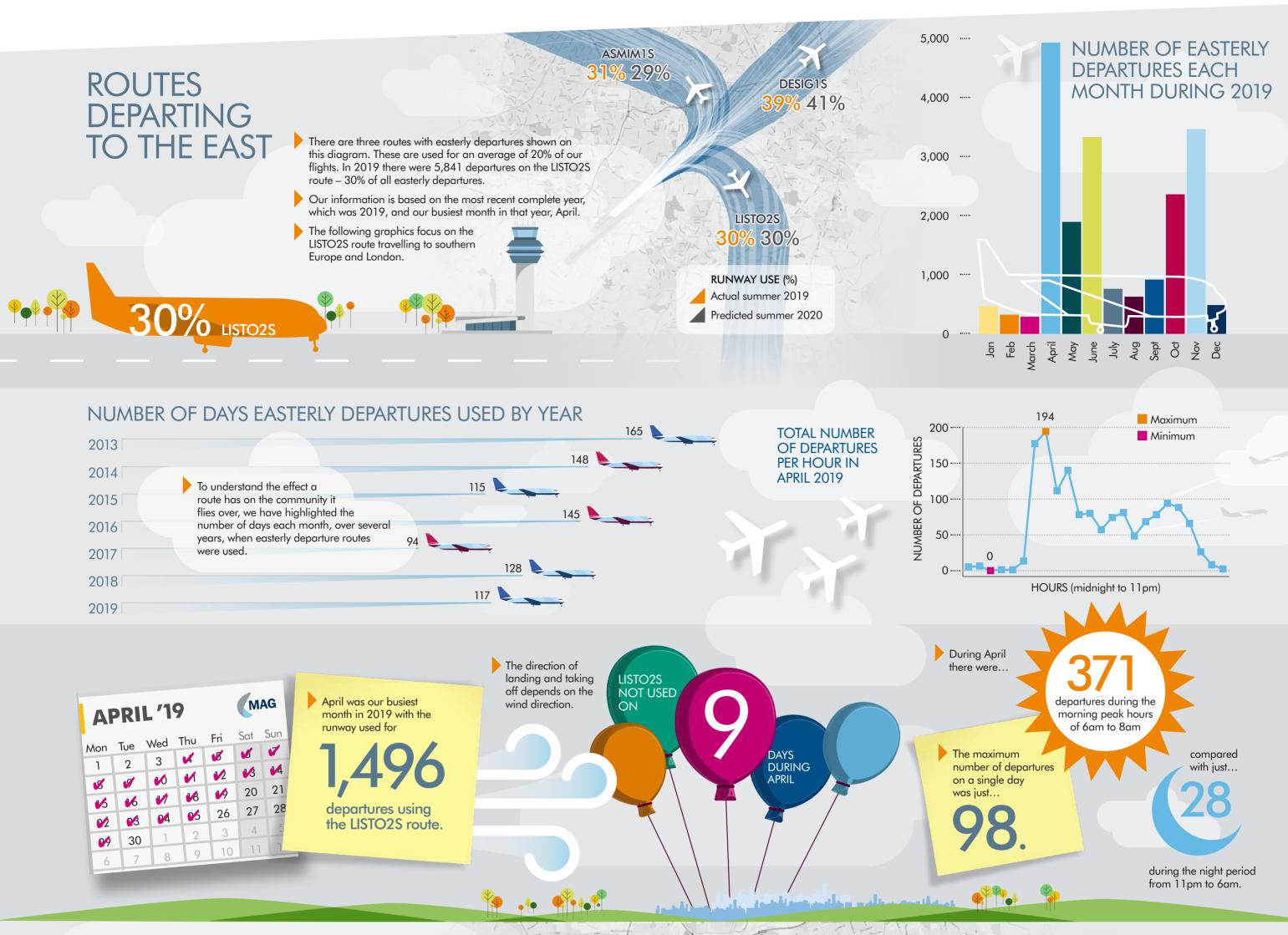


The wind direction may change several times in a day, so we may change our direction of operations to reflect this. The table above shows the percentage of movements in each direction over the last eight years.









SOUTHERLY / EASTERLY

Flight frequency during April 2019

200 to 1,400 flights

100 to 199 flight

50 to 99 flights

25 to 49 flights

3 to 24 flights

LISTO2S

BRUNTWOOD PARK

BRAMHALL PARK

WOODFORD

MOTTRAM HALL

MACCLESFIELD

NEWALL GREEN

POSITION OF AIRCRAFT **ALONG ROUTE LISTO2S**

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 What technology the aircraft has on board
 Weather conditions

- The weight of the aircraft

The map opposite shows the general position and spread of flights using the LISTO2S route in April 2019. The colours show the position of aircraft on the route in April 2019. The key shows how frequently areas were flown over during April 2019.

CHANGES IN THE FUTURE

AIRCRAFT

Over time, airlines will buy new aircraft. The improved engines A review of upper airspace (above 24,500 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).

AIRSPACE LEVELS

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.

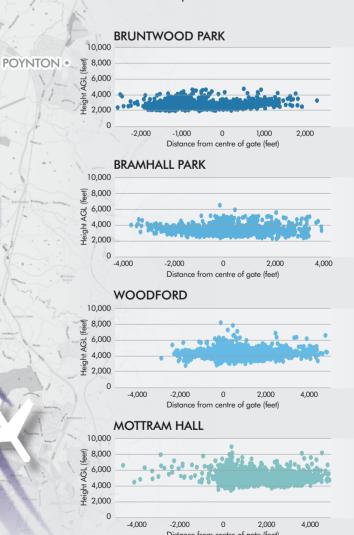
- High level over 7,000 feet where aircraft are travelling to or from their final destination
- Arrival below 7,000 feet heading to the final destination airport
- Departure between 0 and 7,000 feet leaving the airport to join the high level routes
- Changes that are above 7,000 feet will be managed by NATS.

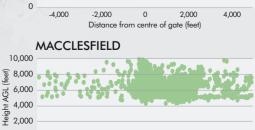
Aircraft currently approach the airport they are landing at and wait for an instruction to land. Ideally, the approach is a continuous descent to land as this is fuel efficient and quiet.

If aircraft need to wait, they currently 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.

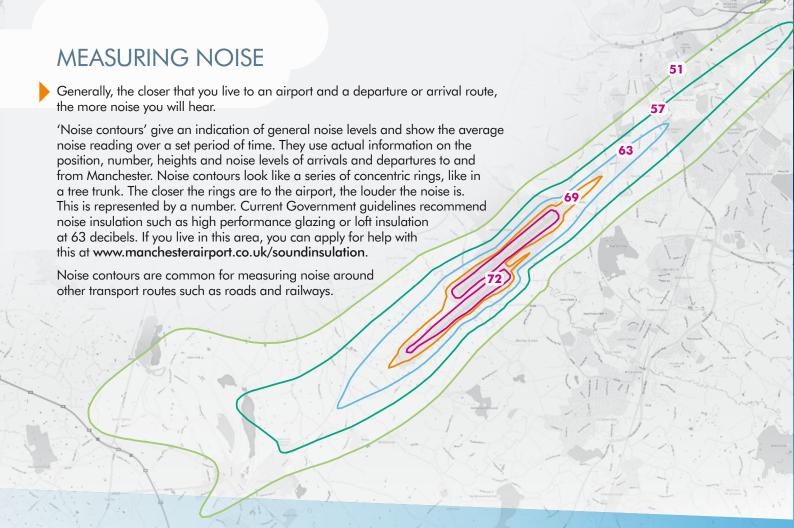
There is more information about arriving aircraft in our runway data sheet www.manchesterairport.co.uk/ runwaydatasheet. The graphics below show the height of aircraft on the LISTO2S route at the places marked on the route. They show the concentration of aircraft in the centre of the route and the height above sea level.

You can see some aircraft from one airline turned south outside of the LISTO2S route. Our environment department noticed this and working together with the airline have resolved the problem.





-4,000 -2.000 2.000



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 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; or
- 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.



