

# HOBART AIRSPACE DESIGN

## MARION BAY COMMUNITY

Airservices has undertaken a review of the Hobart Airport Standard Instrument Departures (SIDs) and Standard Instrument Arrivals (STARs) for Runway 12 and Runway 30, with safety of air navigation as our primary consideration. While the current flight path design is safe, Airservices has identified opportunities to improve safety while minimising the effect of aircraft noise on the community, where possible.

Airservices has prepared Fact Sheets for specific communities located within areas affected by proposed flight path designs to provide further information regarding what you will see and hear. Consultation commenced on 31 October 2018 and is open until 21 December 2018. The proposed designs can be found by following this [link](http://www.airservicesaustralia.com/projects/flight-path-changes/hobart-airport-standard-arrivals-and-departures/) on the Airservices website or <http://www.airservicesaustralia.com/projects/flight-path-changes/hobart-airport-standard-arrivals-and-departures/>

### HOW ARE THE RUNWAYS USED AT HOBART INTERNATIONAL AIRPORT?

The operational pattern of Hobart Airport is highly seasonal due to prevailing winds and weather patterns. Hobart Airport has one runway, which is aligned northwest known as Runway 30 and southeast known as Runway 12.

In winter months the airport tends to operate in a north-westerly flow, with aircraft landing and taking off on Runway 30 in the same direction, whereas during the summer months, operations are more evenly distributed to both Runway 30 and Runway 12. This is because aircraft need to land and take-off into wind as much as possible.

### HOW WILL IT BE DIFFERENT FROM WHAT I EXPERIENCE TODAY?

The proposed design introduces separate SIDs for light aircraft and jet aircraft. It also includes the introduction of Smart Tracking STAR approaches for both runways. These are in addition to the satellite area navigation approaches (RNAV) currently in use.

Smart Tracking aircraft fly with greater accuracy than those using conventional navigation means, providing vertical and lateral guidance. The satellite technology makes air travel safer, with fewer emissions and is more dependable in all weather conditions. Aircraft flying the Smart Tracking approach must meet regulatory

standards for approval to fly this flight path. Most airlines in Australia have this approval.

The following are the proposed flight path designs for Runway 30 and Runway 12 that affect the Marion Bay area. It is important to note that there will be times when aircraft will fly paths that are different to the proposed flight paths due to operational reasons.

#### Runway 30 (Figures 1 and 3)

When Runway 30 is used for arrivals, there will be three possible flight paths:

- The west flight path - used for light aircraft from locations such as Launceston and St Helens flying the RNAV approach.
- The north-western flight path – used by jet aircraft arriving from ports such as Sydney and Brisbane, over water and flying the Smart Tracking approach.
- The south-western flight path – used by jet aircraft flying the RNAV approach from locations such as Melbourne.

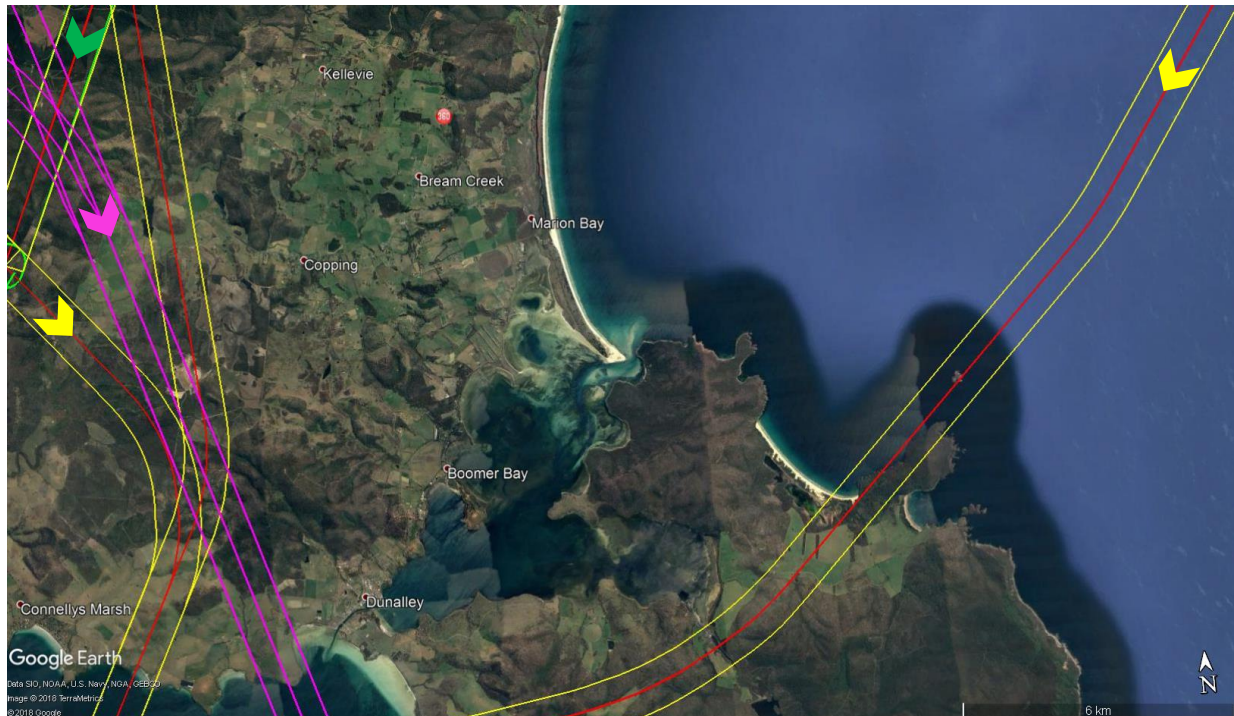
There will be a total reduction of aircraft movements from the current approximate **38** arrivals down to a total of approximately **14** arrivals.

#### Runway 12 (Figures 2 and 4)

When Runway 12 is used for departures, the flight path for jet aircraft will move 1 km closer to Marion Bay but aircraft will generally be slightly higher.

## Flight Path Corridors

The current and proposed flight paths are presented as ‘flight path corridors’. The corridors contain the flight path track in the centre and an area either side of the track, where aircraft can be expected to operate. This is because aircraft performance can vary across aircraft types, operators and in different weather conditions



**Figure 1: Runway 30 Operations**

**Key:** ● Current Arrivals ● Proposed Arrivals ● Smart Tracking



**Figure 2: Runway 12 Departure Operations**

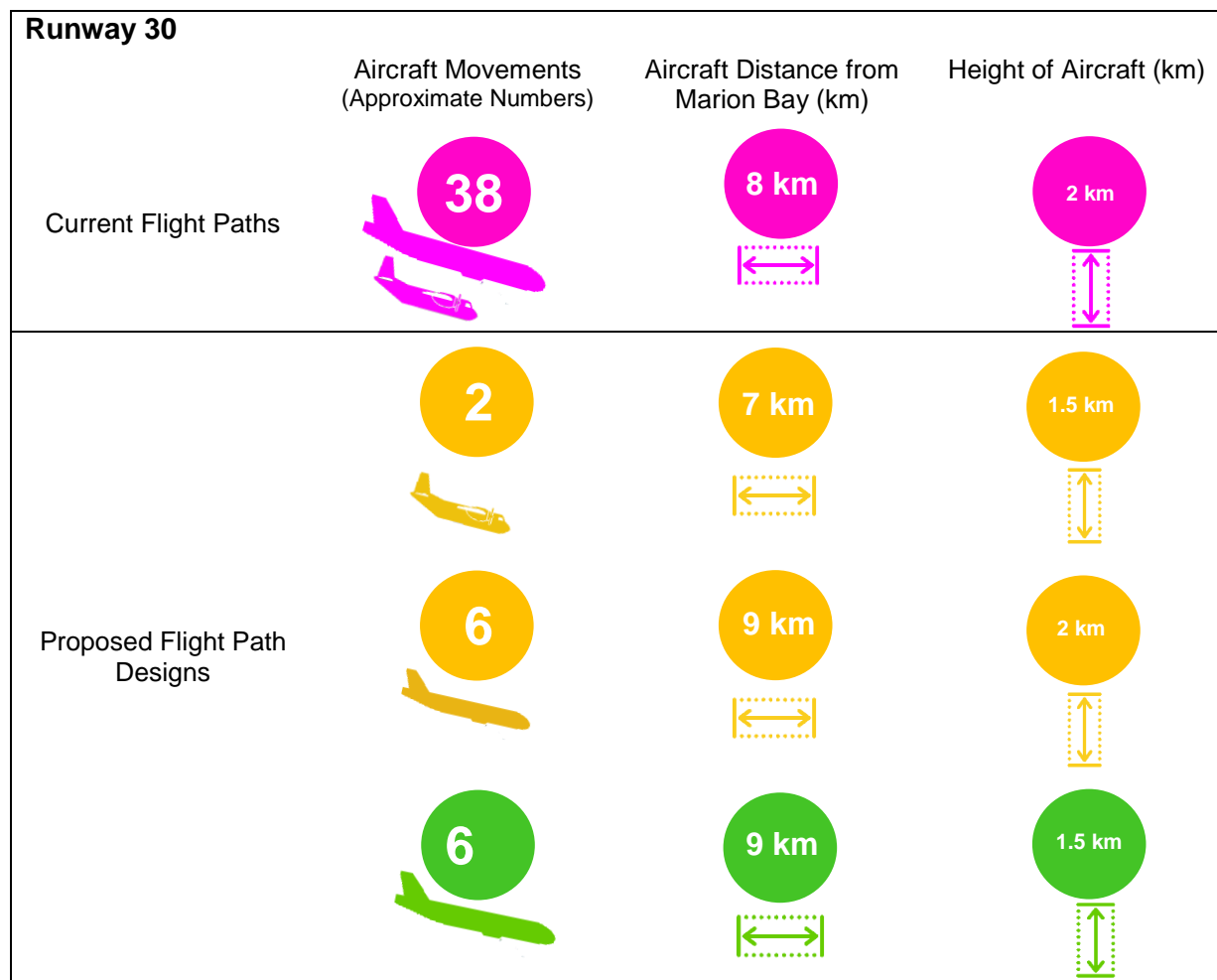
**Key:** ● Current Departures ● Proposed Departures

## WHAT WILL I SEE (AIRCRAFT MOVEMENTS, DISTANCES AND HEIGHTS)?

  
 Light Aircraft

  
 Jet Aircraft


Aircraft distance has been measured from either the town centre or the town perimeter, whichever is closest to the flight path.

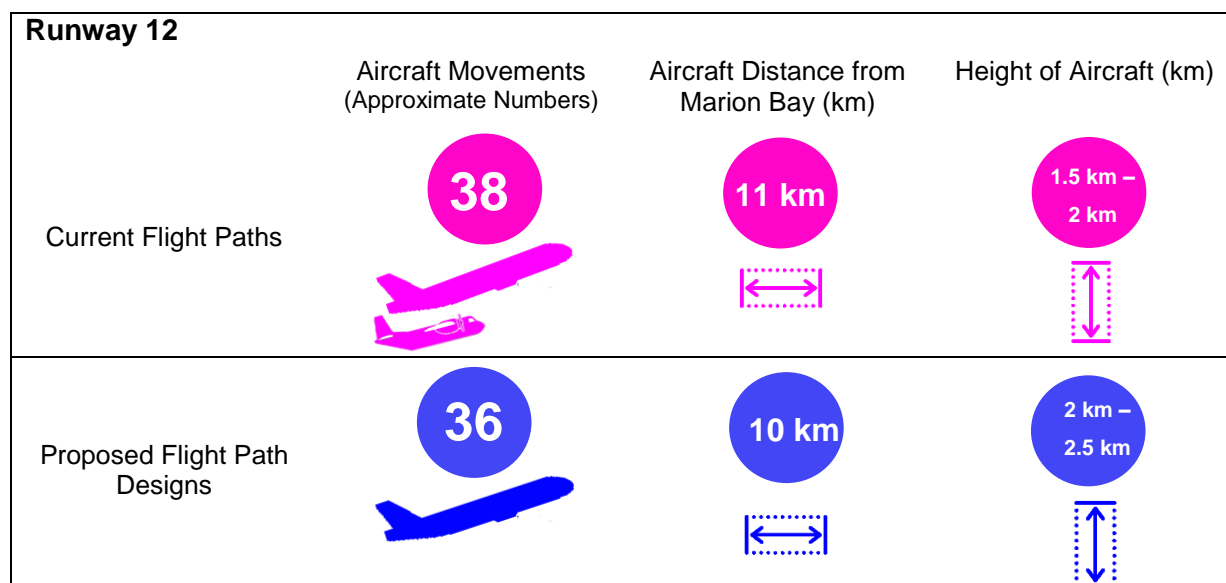


**Figure 3:** Runway 30 Operations

**Key:**

- Current Arrivals
- Proposed Arrivals
- Smart Tracking

On a busy day, residents in Marion Bay area may notice approximately **2** light aircraft arriving approximately 7 km west of the area at a height of 1.5 km, **6** jet aircraft arriving via Smart Tracking approximately 9 km to the northwest at a height of 1.5 km and **6** jet aircraft arriving approximately 9 km southeast of the area at a height of 2 km.



**Figure 4: Runway 12 Operations**

**Key:** ● Current Departures  
● Proposed Departures

Residents may notice approximately **36** jet aircraft departing 10km to the west, at a height of up to 2.5 km.



## WHAT WILL I HEAR?

Based on noise modelling<sup>1</sup> on a busy summer day, Figure 5 depicts the current noise modelling map of the Marion Bay area on a summer day. There are no events of more than 60 decibels<sup>2</sup> depicted.

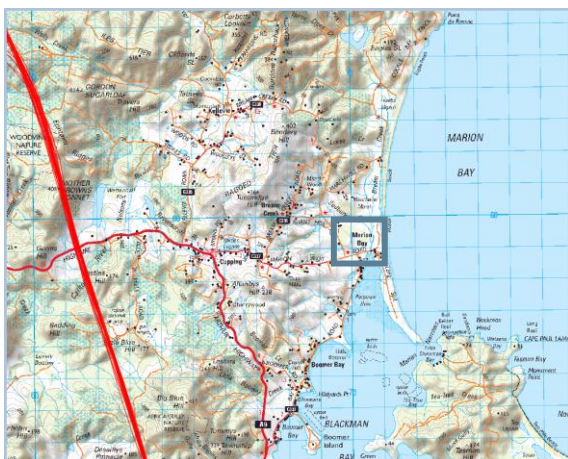
**Note:** Summer data is taken from the period prior to March 2018 flight path changes to Runway 30 STAR.



**Figure 5:** Current 60 decibel map (Summer)

Figure 6 depicts the current noise modelling map of the Marion Bay area on a busy winter day. There are no events of more than 60 decibels depicted.

**Note:** Winter data is taken from the period after March 2018 flight path changes to Runway 30 STAR.



**Figure 6:** Current 60 decibel map for Marion Bay (Winter)

Figure 7 presents the proposed noise modelling map for the Marion Bay area on a busy summer day, which shows up to 5 (pink dots) noise events over 60 decibels.



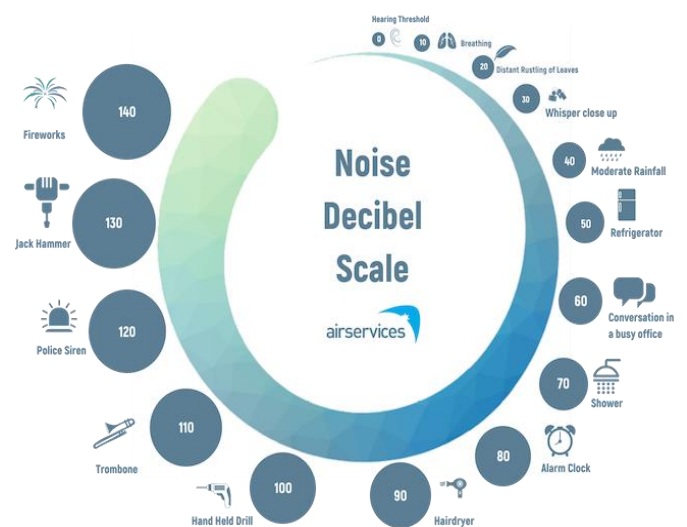
**Figure 7:** Proposed 60 decibel map (Summer)

Figure 8 presents the proposed noise modelling map for the Marion Bay area on a busy winters day, which shows up to 5 (pink dots) noise events over 60 decibels.



**Figure 8:** Proposed 60 decibel map (Winter)

The range of noise levels associated with different everyday activities is depicted in Figure 9.



**Figure 9:** Noise Decibel Scale (Source: Noise Navigator® Sound Level Database) provides examples of the level of noise (decibels) that various activities and equipment emit, and communities may experience. The diagram is not designed to illustrate the entire effect of aircraft operations.

<sup>1</sup> Aviation Environment Design Tool (FAA)

<sup>2</sup> Australian Standard 2021:2015

## **WHEN WILL THIS CHANGE OCCUR?**

The proposed flight path designs are open for stakeholder feedback from 31 October and have now been extended until 21 December 2018.

An implementation date will be determined once all the feedback is considered and the flight path designs are finalised.

## **WHERE CAN I GET MORE INFORMATION?**

On-site community consultation will occur in the broader Hobart area between 15 and 21 November 2018. Dates and locations are available on the [Airservices website](#).

## **HOW CAN I HAVE MY SAY?**

To provide feedback and/or register interest in receiving information on flight path changes for the Hobart area, contact either:

Tania Parkes Consulting:

- [taniaparkes@taniaparkes.com.au](mailto:taniaparkes@taniaparkes.com.au)
- 1800 172 173 (free call), or

Airservices Noise Complaints and Information Service (NCIS):

- 1800 802 584 (free call), an interpreter service is also available on 131 450
- Our online form at: <https://feedback.emsbk.com/asa>

***Disclaimer: While the information contained in this document has been presented with all due care, Airservices does not represent that the Information is free from errors or omission.***