

Short Term Monitoring Program

Coorparoo Report, QLD

Version Control

Version 1: 25 Feb 2014	
Section	Summary

Glossary of Terms

A	Arrivals
Background noise level (L90)	The sound level in dB(A) that is exceeded 90% of the time
Correlated Noise Event (CNE)	A noise event correlated to an aircraft operation that flew through the capture zone
Correlation Summary	Percentage of captured aircraft operations correlated with noise events recorded by the noise monitor
D	Departures
Day	6:00am to 11:00pm
H	Helicopters
LAmx	Maximum sound level in dB(A)
Local	Operation that departs and arrives at the same airport. Local movements include circuits and training flights.
Movement	An aircraft operation, such as a arrival or departure
Night	11:00 pm to 6:00 am
NFPMS	Noise and Flight Path Monitoring System
Noise Event	A noise that exceeds the threshold sound level for longer than the threshold time that is set
NMT	Noise Monitoring Terminal
O	Overflight i.e. an aircraft movement that flew over the area but did not arrive or depart from the airport of concern
T	Local Operation (Departure and Arrival)
Threshold	Determined level on noise monitor that triggers a noise event when exceeded

For further information on the metrics used in this report refer to Australian Standard 1055.1–1997 "Acoustics – Description and measurement of environmental noise".

Airservices Noise Monitoring Program

Information about Airservices noise monitoring program is available on the Airservices website, including reports of the noise and operational data collected by the Noise and Flight Path Monitoring System, as well as fact sheets about topics related to aircraft noise. The website is available at: www.airservicesaustralia.com/aircraftnoise/

Contact Us

To lodge a complaint or make an enquiry about aircraft operations, you can go to WebTrak (www.airservicesaustralia.com/aircraftnoise/webtrak/) use our online form (www.airservicesaustralia.com/aircraftnoise/about-making-a-complaint/) telephone 1800 802 584 (freecall) or 1300 302 240 (local call –Sydney) fax (02) 9556 6641 or write to, Noise Complaints and Information Service, PO Box 211, Mascot ACT 1460.

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This report contains a summary of data collected over the specified period and is intended to convey the best information available from the NFPMS at the time. The system databases are to some extent dependent upon external sources and errors may occur. All care is taken in preparation of the report but its complete accuracy can not be guaranteed. Airservices Australia does not accept any legal liability for any losses arising from reliance upon data in this report which may be found to be inaccurate.

Deployment Purpose

Short term noise monitoring was conducted at Coorparoo following recommendations made by the community.

The purpose of this report is to provide a technical summary of the recorded aircraft noise and operational data collected at Coorparoo during October and November 2013.

An explanation of terms used within this report can be found in the Glossary on page 2 of the report.

Deployment Monitoring Period

19/10/2013 12:00 am – 14/11/2013 12:00 am

Noise Monitoring Terminal (NMT) Details

Location	Private Residence, Coorparoo, QLD 4151
Latitude	27° 30' 8.10" S
Longitude	153° 3' 35.15"E
NMT Altitude	144 ft above mean sea level
Capture Zone	2.5 km radius with 8,000 ft (above ground level) height for noise data capture
Threshold Settings	47.0 dB(A) to 58.0 dB(A) depending on time of day

Coorparoo Findings

- For more information please refer to Figure 1, Figure 2 and Table 1 on page 4.
- The noise monitor was located in Coorparoo 12 km to the south west of Brisbane airport.
- 4,413 movements flew through the capture zone during the reporting period. 4,296 of these were Brisbane operations.
- 69% of total operations that flew through the capture zone (as shown in figure 2) were Runway 01 Jet Arrivals.
- 3,827 correlated noise events exceeded 65 dB(A), 142 of these occurred during the hours of night.
- The number of correlated noise events exceeding 65 dB(A) in any one day ranged from 9 to 288.
- Residents of Coorparoo experienced noise events that exceed 75 dB(A) during the hours of day and night. This occurred 365 times during the reporting period.
- The loudest correlated aircraft noise event with a max level of 82.7 dB(A) was an Airbus A330-300 Runway 01 Arrival.
- The correlation summary for all movements was 93%. This is considered a good result based on reviews of fixed noise monitoring terminals nationally.

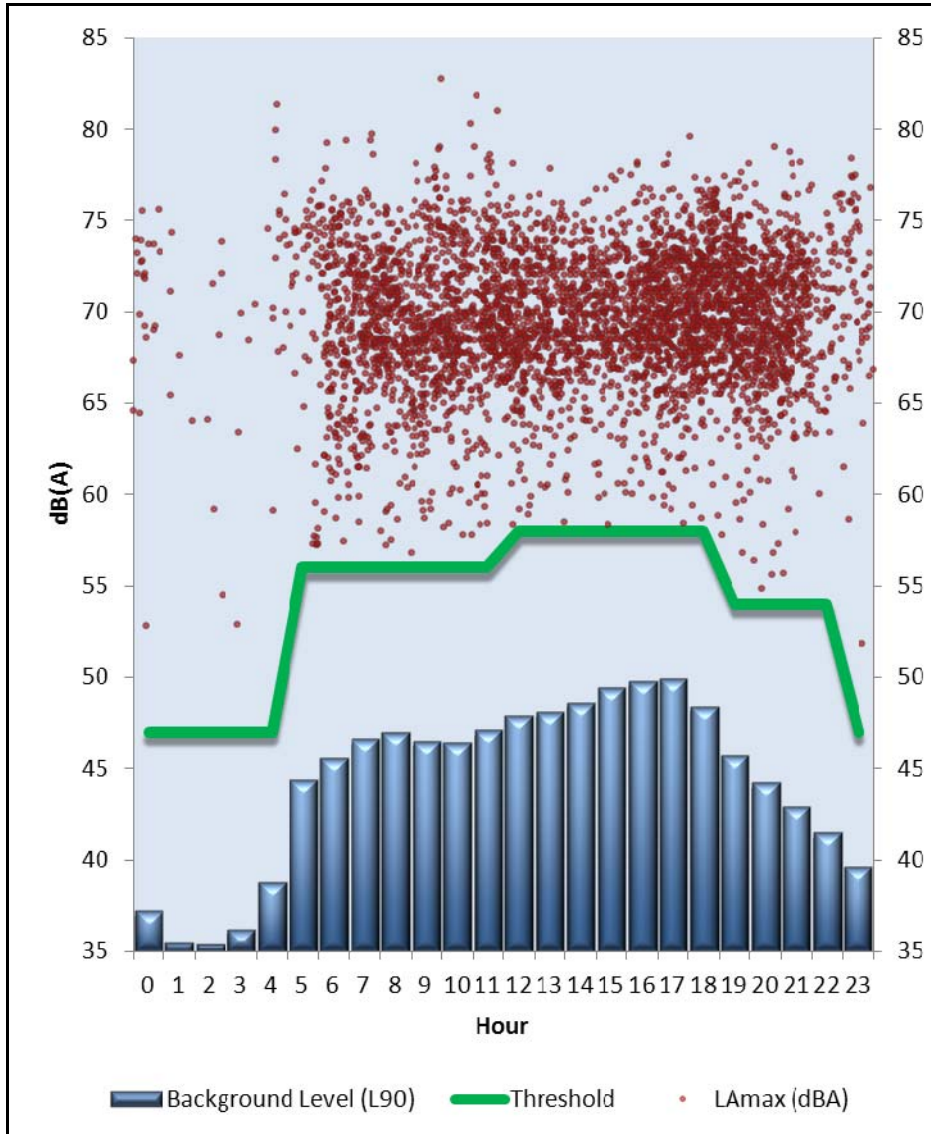


FIGURE 1: COORPAROO NOISE SUMMARY
19/10/2013 12:00AM – 14/11/2013 12:00AM

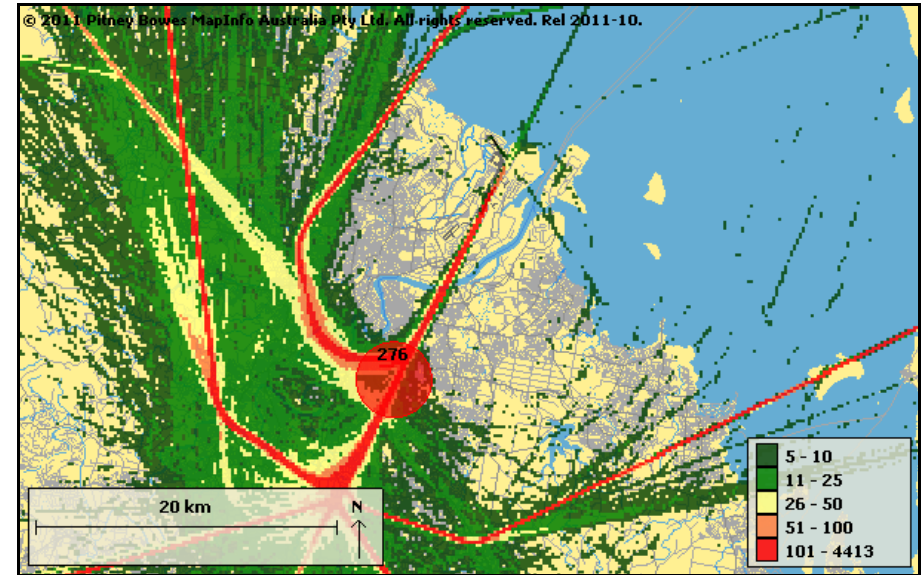


FIGURE 2: OPERATIONS THAT TRAVERSED COORPAROO

TABLE 1: TOP 10 MOST CORRELATED AIRCRAFT TYPES OVER THE COORPAROO NOISE MONITORING TERMINAL

Aircraft Type	Airport	Operation Type	RWY	No. Correlated Noise Events	LMax dB(A)		Highest No. CNE in One Day
					Average	Maximum	
Boeing 737-800 (J)	BNE	A	01	1502	70.3	78.1	100
Airbus A320 (J)	BNE	A	01	437	71.7	78.4	29
Boeing 767-300 (J)	BNE	A	01	257	72.5	79.7	20
Bombardier Dash 8-400 (T)	BNE	A	01	200	67.4	74.6	28
Airbus A330-300 (J)	BNE	A	01	137	74.7	82.7	10
Embraer 190 (J)	BNE	A	01	131	69.3	74.9	12
Bombardier Dash 8-300 (T)	BNE	A	01	130	66.7	75.8	22
Boeing 737-800 (J)	BNE	D	19	128	65.9	73.5	27
Boeing 717 (J)	BNE	A	01	117	68.8	73.2	12
Airbus A330-200 (J)	BNE	A	01	61	74.6	81.3	7

Aircraft Category: Jet (J), Turboprop (T), Propeller (P), Helicopter (H), Unknown (U)
Operation Type: Arrival (A), Departure (D), Local Operation (T), Overflight (O)