AUSTRALIA

AIP SUPPLEMENT (SUP)

H165/26

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MILITARY EXERCISE, SOUTHERN ARROW, SHOALWATER BAY TRAINING AREA, 24 NOVEMBER – 09 DECEMBER 2026

1. INTRODUCTION

1.1 This AIP SUP advises pilots of planned Defence Global Navigation Satellite System (GNSS) jamming activities within the Shoalwater Bay Training Area during the period 24 November to 09 December 2026.

1.2 The activities may result in degradation or loss of Radio Navigation Satellite System (RNSS) services affecting aircraft navigation, positioning and timing synchronisation.

2. OPERATIONAL INFORMATION

2.1 During the activity period, the following restricted areas may be activated:

AREA	VERTICAL LIMIT	HOURS
R681 AKENS ISLAND	NOTAM - NOTAM	NOTAM
R682 TOWNSHEND ISLAND	NOTAM - NOTAM	NOTAM
R683 CAPE CLINTON	NOTAM - NOTAM	NOTAM
R684A MOUNT HUMMOCK	SFC - 2000FT	H24
R684B MOUNT HUMMOCK	2000FT - NOTAM	NOTAM
R692A RASPBERRY CREEK	SFC - 2000FT	H24
R692B RASPBERRY CREEK	2000FT - 6000FT	NOTAM
R692C RASPBERRY CREEK	6000FT - NOTAM	NOTAM

2.2 NOTAMs will be issued for the Brisbane FIR and potentially affected aerodromes surrounding the GNSS jamming activity. The areas identify the geographical extents where degradation of RNSS availability may exist and loss of GNSS is expected.

2.3 Degradation or loss of RNSS signals may be experienced beyond the lateral limits of the activated restricted areas, depending on aircraft altitude and location.

2.4 Defence has established CEASE BUZZER procedures with Brisbane Centre that may be enacted if there is a risk to safety of life.

3. RNSS JAMMING EFFECTS

3.1 Defence has assessed the effects of RNSS jamming at 1,000FT AGL, 4,500FT AGL, 10,000FT AMSL, FL200 and FL300. The assessed RNSS jamming effect areas are depicted in Appendix 1.

3.2 The majority of the yellow and orange areas depicted in Appendix 1 are contained within the activated restricted areas.

4. CANCELLATION

4.1 This SUP self-cancels at 202612090200 UTC.

5. DISTRIBUTION

5.1 Airservices Australia website only.

Appendix

1. Assessed RNSS Jamming Effects – Shoalwater Bay Training Area

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Colour	Jamming power level received (dBm)	Jammer to signal (J/S) ratio (dB)	Notes
	-104.5 to -94.5	24 to 34	A J/S of 24 dB may deny a receiver from acquiring GPS signals, i.e. applicable on the ground at power up.
	-94.5 to -84.5	34 to 44	Slightly stronger jamming, no acquisition if GPS is not already being tracked. Degradation to navigation solution and possible knock-off (i.e. lose tracking and GPS receiver cease outputting a solution).
	-84.5 to -74.5	44 to 54	Expected knock off (i.e. lose tracking and GPS receiver cease outputting a solution) of a civilian GPS receiver at a J/S of 44 dB and higher.

Table 1: Legend Effects for Map Overlays

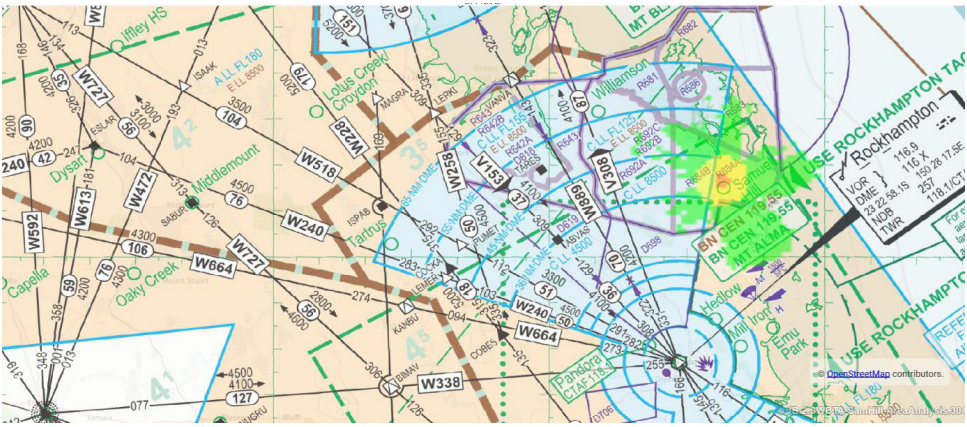


Figure 1: Jamming Effect at 1,000FT AGL

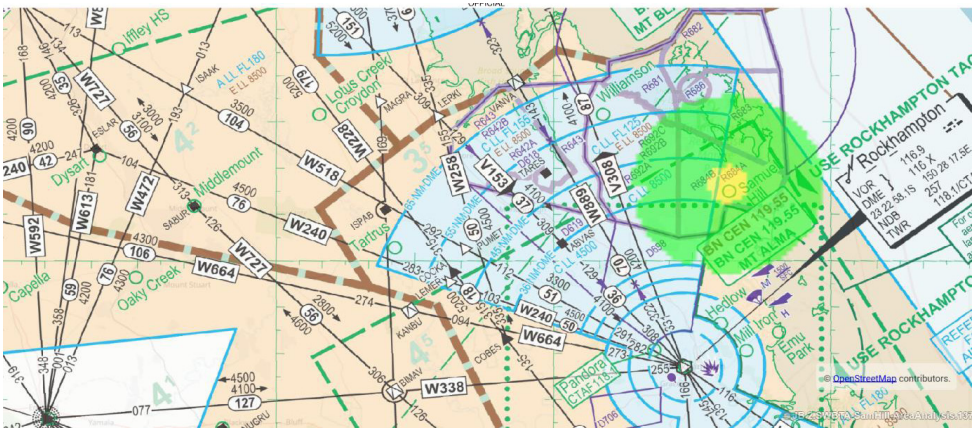


Figure 2: Jamming Effect at 4,500FT AGL

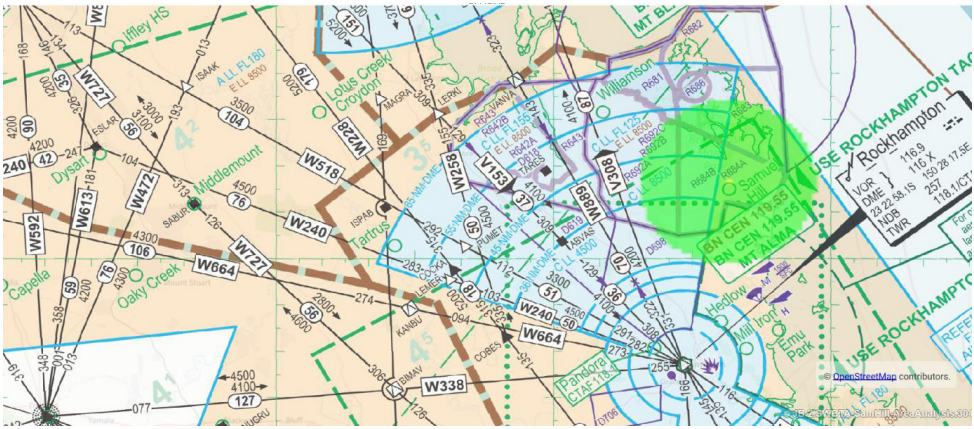


Figure 3: Jamming Effect at 10,000FT AMSL

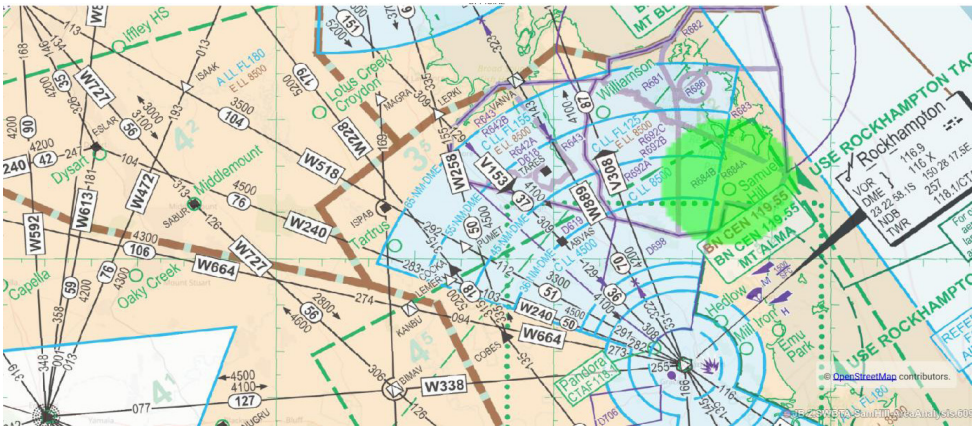


Figure 4: Jamming Effect at FL200

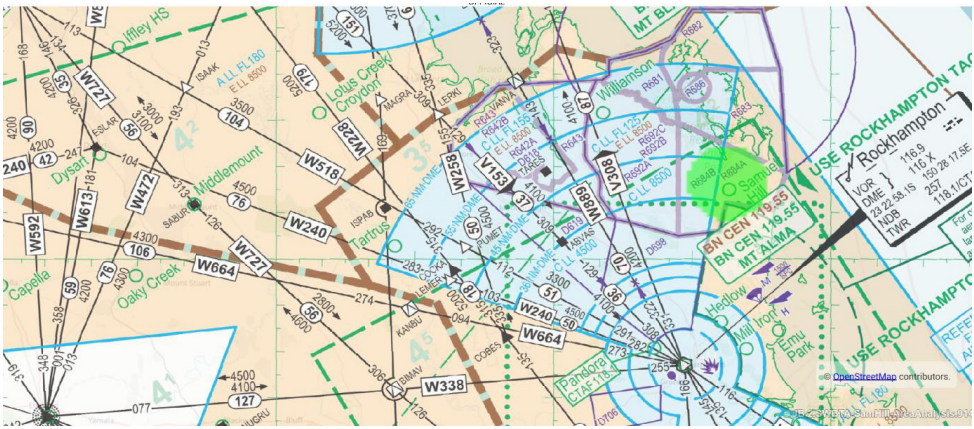


Figure 5: Jamming Effect at FL300