

**AIP SUPPLEMENT  
(SUP)****H47/25****Effective: 202503172130 UTC**AERONAUTICAL INFORMATION SERVICE,  
AIRSERVICES AUSTRALIA, GPO BOX 367,  
CANBERRA ACT 2601For **DISTRIBUTION** queries, contact:  
Email: [aim\\_editorial@airservicesaustralia.com](mailto:aim_editorial@airservicesaustralia.com)For **CONTENT** queries regarding this SUP, contact:  
Email: [rangesafety@gospace.com](mailto:rangesafety@gospace.com) Phone: 07 5618 9043**GILMOUR SPACE - ERIS MSN001  
ORBITAL ROCKET LAUNCH****1. INTRODUCTION**

- 1.1 This SUP cancels and replaces SUP H31/25 with a change to the effective date and section 5.
- 1.2 From 18 March 2025, Gilmour Space Technologies will attempt to launch its Eris orbital rocket over the Coral Sea from the Bowen Orbital Spaceport (BOS), located in Queensland.
- 1.3 Two Temporary Restricted Areas (TRA) and four Temporary Danger Areas (TDA) will be activated to alert airspace users to potential hazards posed by the activity.

**2. OPERATIONAL INFORMATION - AIRSPACE**

- 2.1 The Eris orbital rocket is a 3-stage vehicle that disposes of spent stages throughout its mission profile.
- 2.2 Stages 1 and 2 are intended for disposal over the Coral Sea in scheduled debris drop zones corresponding to TDA STAGE 1 and TDA STAGE 2 (section 3.3 refers).
- 2.3 Between these TDA there is a significant region of airspace which, under nominal launch conditions, will not be exposed to any hazard. However, an off-nominal launch condition could result in the presence of hazardous debris between the scheduled debris drop zones.

- 2.4 The non-scheduled debris drop zone between TDA STAGE 1 and TDA STAGE 2 straddles the FIR boundary between Brisbane (YBBB) and Honiara (AGGG) and has therefore been split into two Debris Recovery Areas (DRA). These DRA correspond to TDA DRA-YBBB and TDA DRA-AGGG (section 2.3 refers).
- 2.5 A graphic demonstrating the nominal mission profile is provided in Figure 1.

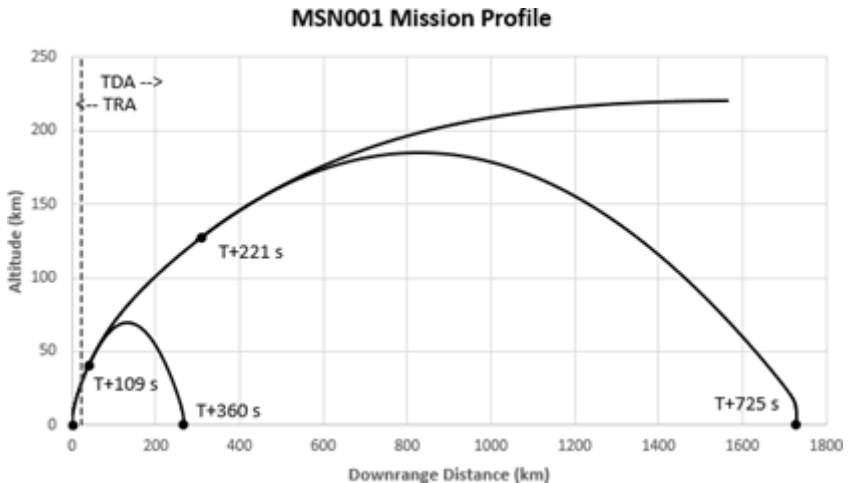


Figure 1: MSN001 nominal mission profile

### 3. RESTRICTED AIRSPACE FOR ERIS LAUNCH

- 3.1 Two TRA will be activated via NOTAM to segregate airspace users from airspace risks associated with the attempted launch of the Eris vehicle.

#### a) TRA FILLING

TRAFILLING separates airspace users from an area within which an explosive hazard exists while the launch vehicle is undergoing filling operations.

#### YBBB/TRA FILLING

#### EXPLOSIVE HAZARD

**LATERAL LIMITS:** Within 2NM radius of PSN 195728S 1480646E

**VERTICAL LIMITS:** SFC – 5000FT AMSL

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Gilmour Space, PH: 07 5618 9043

**b) TRA LAUNCH**

TRA LAUNCH is for the land and ocean segments up to 12NM from the coastline overflowed by the Eris first stage.

**YBBB/TRA LAUNCH****ROCKET LAUNCH**

**LATERAL LIMITS:** 195448S 1480219E – 193118S 1482031E –  
194712S 1483415E – 195042S 1485657E – 200007S 1481425E –  
200226S 1480725E – 200231S 1480545E – 200133S 1480322E –  
195903S 1480129E – 195618S 1480128E – 195448S 1480219E

**VERTICAL LIMITS:** SFC - UNL

**HOURS OF ACTIVITY:** NOTAM

**CONTROLLING AUTHORITY:** Gilmour Space, PH: 07 5618 9043

**3.2 Stage 1 and 2 Returns**

3.3 The areas within which there is debris scheduled to return are declared as two distinct TDA.

**a) TDA STAGE 1**

TDA STAGE 1 (Brisbane FIR) corresponds to the area beyond 12NM from the Australian coastline intended to capture Stage 1 scheduled debris return.

**YBBB/TDA STAGE 1****LAUNCH DEBRIS**

**LATERAL LIMITS:** 193118S 1482031E – 185732S 1484620E –  
180713S 1501907E – 191317S 1505639E – 195620S 1493429E –  
195042S 1485657E – 194712S 1483415E – 193118S 1482031E

**VERTICAL LIMITS:** SFC - UNL

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** Gilmour Space, PH: 07 5618 9043

**b) TDA STAGE 2**

TDA STAGE 2 (Honiara FIR) is designed to capture Stage 2 scheduled debris return.

**TDA STAGE 2****LAUNCH DEBRIS**

**LATERAL LIMITS:** 123310S 1594943E – 103241S 1631224E – 113543S 1635240E – 133756S 1603109E – 123310S 1594943E

**VERTICAL LIMITS:** SFC - UNL

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** Gilmour Space, PH: 07 5618 9043

**3.4 Debris Response Areas (DRA)**

3.5 The Debris Response Areas correspond to areas within which there is a risk of unscheduled debris following a failure of the launch vehicle during the Stage 2 burn. The DRA are declared as two distinct TDA.

**a) TDA DRA-YBBB**

TDA DRA-YBBB is defined as a polygon 80NM wide up to the boundary of the Brisbane FIR.

**YBBB/TDA DRA-YBBB****LAUNCH DEBRIS**

**LATERAL LIMITS:** 191317S 1505639E – 180713S 1501907E – 140000S 1572821E – 140000S 1595515E – 191317S 1505639E

**VERTICAL LIMITS:** SFC - UNL

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** Gilmour Space, PH: 07 5618 9043

b) **TDA DRA-AGGG**

TDA DRA-AGGG is defined as a polygon 80NM wide from the southern boundary of the Honiara FIR to the western boundary of TDA STAGE 2.

**TDA DRA-AGGG**

**LATERAL LIMITS:** 140000S 1572821E – 123310S 1594943E – 133756S 1603109E – 140000S 1595515E – 140000S 1572821E

**VERTICAL LIMITS:** SFC - UNL

**HOURS OF ACTIVITY:** NOTAM

**CONTACT:** Gilmour Space, PH: 07 5618 9043

**4. ACTIVATION TIMES AND HAZARD DURATIONS**

4.1 Expected NOTAM activation times (other than TRA FILLING) are presented as follows:

**Daily NOTAM Activation Period(s) 1 –**

*2130 to 0115 UTC daily as per NOTAM*

**Daily NOTAM Activation Period(s) 2 –**

*0330 to 0730 UTC daily as per NOTAM*

4.2 TRA FILLING will activate prior to all other TRA/TDA.

4.3 All other TRA/TDA will be activated simultaneously.

4.4 All NOTAM will be published 14 days prior to an identified launch window.

4.5 Should a launch delay occur, NOTAM will be reviewed as required.

4.6 The maximum duration of the TRA/TDA activations is detailed below.

	<b>TRA FILLING</b>	<b>TRA LAUNCH, ALL TDA</b>
<b>Nominal</b>	36 hours (18 hours before activity to 18 hours after activity)	90 MIN
<b>Delay/Hold</b>	Per published active period	5 hours
<b>Failure</b>	Per published active period	90 MIN (no delays) 5 hours (with delays)
<b>Scrub</b>	Per published active period	30 MIN (no delays) 5 hours (with delays)

## 5. DIVERSION TRACKS

- 5.1 Orbital Rocket Launch Activity (refer Appendix 1).
- 5.2 Pilots should be aware that flight is restricted when operating in the vicinity of ERIS MSN001 Orbital Rocket Launch Temporary Restricted Areas (TRA).
- 5.3 The following routes are restricted during ERIS MSN001 Orbital Rocket Launch TRA activation:

- Q67 YBBN-YBCS
- B462
- V153 YBTL-YBMK
- Q141
- W112
- W387
- Z17
- Z25

The following routes are affected during ERIS MSN001 Orbital Rocket TDA activation:

- B220
  - G591
  - G205
  - Aircraft requesting User Preferred Routes (UPR) in the YBBB FIR in the vicinity of the TRA.
- 5.4 Pilots intending to operate on these routes are advised to plan in accordance with the diversion tracks specified in the following tables.
- 5.5 The diversion tracks below are also available for pilots intending to operate on routes impacted by the ERIS MSN001 Orbital Rocket Launch Temporary Danger Areas (TDA).

### 5.6 Diversion Track Tables

<b>Affected Route</b>	Q67 YBBN - YBCS
<b>Use diversion track</b>	RUNLA – BITAS – WALTA – RUMKA
<b>Purpose</b>	Separation from activity airspace

<b>Affected Route</b>	B462 (southbound)
<b>Use diversion track</b>	NONIR – WALTA – BITAS – MK VOR
<b>Purpose</b>	Separation from activity airspace

<b>Affected Route</b>	B462 (northbound)
<b>Use diversion track</b>	MK VOR – BITAS – WALTA – NONIR
<b>Purpose</b>	Separation from activity airspace

<b>Affected Route</b>	V153 YBTL - YBMK
<b>Use diversion track</b>	WALTA – BITAS – DAGSI
<b>Purpose</b>	Separation from activity airspace

<b>Affected Route</b>	Q141 (joining B462 northbound)
<b>Use diversion track</b>	NITIT-BITAS-WALTA then; track to NONIR to join B462 or; track to PIPPA to join G205
<b>Purpose</b>	Separation from activity airspace

<b>Affected Route</b>	W387 (southbound)
<b>Use diversion track</b>	LINBO-WALTA-BITAS-PN VOR rejoin W387
<b>Purpose</b>	Separation from activity airspace

<b>Affected Route</b>	W387 (northbound)
<b>Use diversion track</b>	PN VOR-BITAS-WALTA-LINBO rejoin W387
<b>Purpose</b>	Separation from activity airspace

<b>Affected Route</b>	Z17 (southbound)
<b>Use diversion track</b>	AKROM-WALTA-BITAS-DAGSI then to a position to join next air route
<b>Purpose</b>	Separation from activity airspace

<b>Affected Route</b>	Z17 (northbound)
<b>Use diversion track</b>	DAGSI-BITAS-WALTA-AKROM then join next air route
<b>Purpose</b>	Separation from activity airspace

<b>Affected Route</b>	Z25 (southbound)
<b>Use diversion track</b>	AKROM-WALTA-BITAS-DAGSI then a position to join next air route
<b>Purpose</b>	Separation from activity airspace

<b>Affected Route</b>	Z25 (northbound)
<b>Use diversion track</b>	DAGSI-BITAS-WALTA-AKROM then join next air route
<b>Purpose</b>	Separation from activity airspace

### 5.7 Diversion Track Tables (TDA)

<b>Affected Route</b>	B220 (southbound)
<b>Use diversion track</b>	DOTOD – WALTA – BITAS – KELPI
<b>Purpose</b>	Separation from activity airspace

<b>Affected Route</b>	B220 (northbound)
<b>Use diversion track</b>	KELPI – BITAS – WALTA – DOTOD
<b>Purpose</b>	Separation from activity airspace

<b>Affected Route</b>	G205 (southbound)
<b>Use diversion track</b>	PIPPA-WALTA-BITAS-DAGSI to a position to join next air route
<b>Purpose</b>	Separation from activity airspace



<b>Affected Route</b>	G205 (northbound)
<b>Use diversion track</b>	From a position (prior to OVRON), DAGSI-BITAS-WALTA-PIPPA
<b>Purpose</b>	Separation from activity airspace

<b>Affected Route</b>	G591 (eastbound)
<b>Use diversion track</b>	CS-WALTA-BITAS-DAGSI-PUGEL join G591
<b>Purpose</b>	Separation from activity airspace

<b>Affected Route</b>	G591 (westbound)
<b>Use diversion track</b>	PUGEL-DAGSI-BITAS-WALTA-CS to join J151
<b>Purpose</b>	Separation from activity airspace

<b>Affected Route</b>	UPR (northbound – tracking west of the activity airspace)
<b>Use diversion track</b>	DAGSI – BITAS – WALTA
<b>Purpose</b>	Separation from activity airspace

<b>Affected Route</b>	UPR (southbound – tracking west of the activity airspace)
<b>Use diversion track</b>	WALTA – BITAS – DAGSI
<b>Purpose</b>	Separation from activity airspace

5.8 Please direct all enquiries relating to Diversion Tracks to [atm.director@airservicesaustralia.com](mailto:atm.director@airservicesaustralia.com)

## 6. CONTACT DETAILS

6.1 TRA Controlling Authority is the Gilmour Space Range Safety Officer.

VHF Radio – CTAF: 126.7 MHz.

Phone: 07 5618 9043

Email: [rso@gospace.com](mailto:rso@gospace.com)

## 7. CANCELLATION

7.1 This SUP self-cancels at 202506121400 UTC.

## **8. DISTRIBUTION**

8.1 Airservices Australia website only.

### **Appendices**

1. Temporary SUA Overview
2. TRA FILLING
3. TRA LAUNCH
4. TDA STAGE 1 – Brisbane FIR
5. TDA STAGE 2 – Honiara FIR
6. TDA DRA-YBBB – Brisbane FIR
7. TDA DRA-AGGG – Honiara FIR

**1. Temporary SUA Overview**

(Red-TRA FILLING & LAUNCH / Light Pink – TDA STAGE 1 / Dark Green – TDA DRA-YBBB / Light Green – TDA DRA-AGGG / Dark Pink - TDA STAGE 2)



2. TRA FILLING

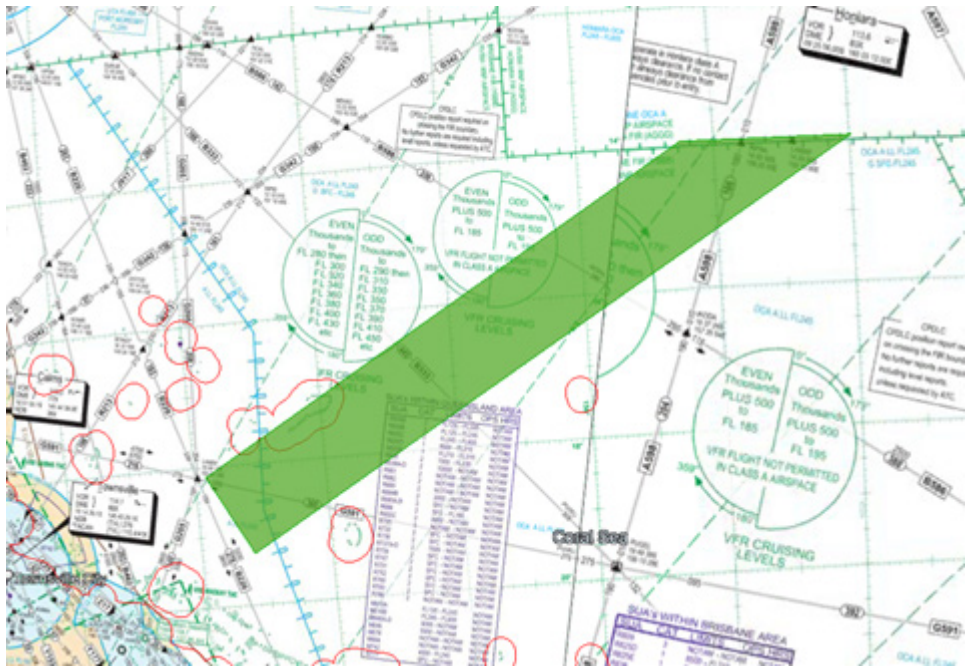








**6. TDA DRA-YBBB – Brisbane FIR**





**7. TDA DRA-AGGG – Honiara FIR**

