



A U S T R A L I A N
U N I V E R S I T I E S
R O C K E T
C O M P E T I T I O N

2025 Integrated Master Schedule

Version 1.0: July 2025



Table of Contents

1. PURPOSE AND SCOPE.....	3
2. TERMS USED	3
1 INTRODUCTION.....	4
1.1 MISSION.....	4
1.2 BACKGROUND.....	4
1.3 DOCUMENTATION AND RESOURCES	4
1.4 REVISIONS.....	5
2 SCHEDULE OVERVIEW	6
2.1 COMPETITION VENUES	6
2.2 COMPETITION EVENTS.....	6
3 CONFERENCE DAY SCHEDULE OVERVIEW.....	9
3.1 POSTER SESSION SCHEDULE.....	9
3.2 PRESENTATION SCHEDULE	10

Revision History

Revision	Description	Date
Version 1.0	Initial release	21/07/2025

1. Purpose and Scope

This document outlines the master schedule and in-person competition deliverables for the 2025 AURC, specifically the activities related to team check-in, poster judging, and technical/safety scrutineering. It defines the timing, roles, and logistics necessary for a successful event.

2. Terms Used

Please see Table 1 for a list and definitions of the terms used in this document.

Table 1: Terms Used

Term	Definition
AEST	Australian Eastern Standard Time
AURC	Australian Universities Rocket Competition
AYAA	Australian Youth Aerospace Association
CASA	Civil Aviation Safety Authority
EA	Endeavour Aerospace
FSR	Flight Safety Reviews
FOR	Flier of Record

1 Introduction

1.1 Mission

The Australian Universities Rocket Competition (AURC) is a multidisciplinary team engineering competition for tertiary STEM students, organised by the Australian Youth Aerospace Association (AYAA). In the competition universities compete to design, manufacture, and launch a high-power rocket to a target altitude in the span of a year.

The AURC is the first Australian competition of its kind, with the core purpose of providing student engineers and scientists with the skills required for Australia's growing aerospace industry. Commercial space projects require a mix of technical specialists from various backgrounds to solve complex problems. The AURC promotes a multidisciplinary approach to problem solving by simulating a real-world engineering project of considerable technical difficulty. The competition occurs under the same constraints of time, budget and standards, and regulations that students would experience in their future careers.

This event continues the AYAA's goals of promoting education, awareness and involvement in the aerospace industry to young people in Australia. The AURC is a step forward in strengthening the Australian space sector and fundamentally serves a critical role in providing industry relevant extracurricular experience to undergraduate and postgraduate university students of all STEM disciplines.

1.2 Background

Australia is no stranger to space; the nation's involvement can be dated back as far as the 1940's when the Woomera Rocket Range was established in South Australia. This site eventually became a landmark as the world's second largest launch and tracking facility. Paul Scully Power, the first Australian to enter space as an Oceanographer in 1985, and Andy Thomas, the first Professional Australian Astronaut acting as a payload commander in 1996 are a few famous names in Australia's space adventures.

The inception of the AURC dates back to 2018, marking its inaugural launch event in October 2019, which garnered remarkable success. However, the subsequent 2020 competition diverged from the traditional format, forgoing an in-person launch event owing to the challenges posed by the global COVID-19 pandemic. Following a hiatus of two years, the AURC was set to make a triumphant return with an in person launch event scheduled for September 2024. Unfortunately, due to factors out of AYAA's control, the 2024 competition did not include launch and recovery assessment components and will take place in a dispersed format.

Now in 2025, in collaboration with Endeavour Aerospace, we are bringing back the in person launch event.

1.3 Documentation and Resources

Please see Table 2 for relevant documentation and resources.

Table 2: Documentation and Resources

Resource	Description	Location
Rules	Competition details, assessment criteria and due dates, eligibility criteria and payment deadlines.	https://aurc.ayaa.com.au/competitor-info/
Rocket Specifications	Rocket restrictions and minimal design requirements	https://aurc.ayaa.com.au/competitor-info/
Deliverables Requirements	Required scope and marking rubrics for each competition deliverable.	https://aurc.ayaa.com.au/competitor-info/
Range SOP and Launch Infrastructure	Standard operating procedure for all rocket launches and details of provided launch site equipment	https://cdn.shopify.com/s/files/1/0811/2871/8625/files/White_Cliffs_Launch_Facility_Standard_Operating_Procedure_1df3bf5-152b-4c97-b1d9-36345d3780e0.pdf?v=1738049186
Civil Aviation Safety Regulations 1998: Part 101	Regulations for Unmanned Aircraft and Rockets under <i>Civil Aviation Act 1988</i>	https://www.legislation.gov.au/Details/F2023C00499/Html/Volume_3#_Toc139897686
Tripoli Safety Code	Guidelines for the reasonably safe operation of rockets at Tripoli Launches.	https://www.tripoli.org/safety

1.4 Revisions

AYAA reserves the right to revise the AURC Integrated Master Schedule. This document amongst all AURC documentation may be subject to change in which case competing teams will be notified. The most recent version will always be maintained on the AURC website. Student teams should always verify they are working with the correct version by checking the version number and date and ensuring it matches the document on the website.

Minor revisions which do not impact the design goals of the teams competing may be made throughout the year. Major revisions which affect the design goals of competing teams will only be made during the transition between competition years, where possible.

2 Schedule Overview

The AURC 2025 will be structured similarly to international student rocketry competitions, with a single-day format combining technical reviews and public engagement. The schedule below outlines the full day of activity:

2.1 Competition Venues

All competition events will occur at the locations listed in Table 3.

Table 3: Event Locations

Location Name	Location Address	Google Maps Link
White Cliffs Hotel	1 Johnston Street, 2836 White Cliffs, Australia	White Cliffs Hotel - Google Maps
White Cliffs Community Hall	9 Johnston Street, 2836 White Cliffs, Australia	White Cliffs Community Hall - Google Maps
Launch Site	30°39'53.316" S 143°11'46.686" E	30°39'53.3"S 143°11'46.7"E - Google Maps

2.2 Competition Events

Table 4: Competition Events

Date	Event(s)
Thursday 28 th August 2025	<p>Team Registration and Rocketeer Check-in: Check-in begins at 12PM AEST at the White Cliffs Convention Hall. All student rocketeers, mentors and Fliers of Record for each team should arrive at the Hall NO LATER THAN 2.30PM AEST.</p> <ul style="list-style-type: none"> • Confirmation of team/student fees payment • Confirmation of Tripoli membership (as required) • Student rocketeer passes + Merch <p>Event Staff, Judge, and Volunteer Coordination Kick-off Meeting: All event staff, Range Safety, judges, and volunteers will meet at the White Cliffs Community Hall at 3PM AEST for a coordination kick-off meeting.</p> <p>Kick-Off Briefing: All rocketeers to meet at the White Cliffs Community Hall at 4PM AEST for a kick-off briefing. AURC Leadership team and Endeavour staff will brief the teams on the schedule of activities, distribute necessary materials, and answer all questions from those assembled.</p> <p>Mass Group Photo: All participants will gather for group photos outside the White cliffs Convention Hall. Rockets Optional. AURC Volunteer/Staff group photos will be directly afterward.</p>
Friday, 29 th August 2025	<p>Conference Day: Held in the White Cliffs town, Conference Day gives students and judges a chance to see all the projects.</p>

Date	Event(s)
	<p>Teams will present their posters, payloads and assembled rockets at White Cliffs Community Hall to judges for marking, as defined in the <i>AURC Rules & Requirements Document</i>. Flight Safety Review will occur concurrently with payload and poster marking.</p> <p>Teams will deliver their prepared presentations to judges at White Cliffs Hotel, as defined in <i>AURC Deliverables Requirements</i>.</p> <p>Throughout Conference Day, judges will begin evaluating all projects for the "category place awards", "team conduct awards" and "overall winner award" defined in the <i>AURC Rules & Requirements Document</i>.</p> <p>Teams should refer to Tables 5 and 6 for Poster/Payload and presentation times.</p>
<p>Saturday 30th August 2025 – Sunday 31st August 2025</p>	<p>Launch Day 1 + 2: Launch Site opens at <u>7AM AEST</u> Range opens at <u>9AM AEST</u>. Each team must have their flyer of record, mentors, academic supervisors and 2 senior team members attend the Fliers meeting at <u>8AM AEST</u> daily.</p> <p>A convoy led by AURC team and EA team will start at White Cliffs at <u>6AM AEST</u>, stopping at Glen Hope and Caradoc.</p> <p>Flight Safety Review will be open daily from <u>9AM - 12PM AEST</u>.</p> <p>Range closes at <u>4PM AEST</u>, Recovery teams are called back at <u>5PM AEST</u>, and the launch site closes at <u>6PM AEST</u>. No-one is permitted to stay at the launch site outside of opening hours. _</p>
<p>Monday 1st September 2025</p>	<p>Launch Day 3, Pack-up and Awards Ceremony: Launch Day 3 is a shorter launch day to allow time for pack up and awards ceremony.</p> <p>Launch Site opens at <u>7AM AEST</u> Range opens at <u>9AM AEST</u>. Each team must have their flyer of record, mentors, academic supervisors and 2 senior team members attend the Fliers meeting at <u>8AM AEST</u>.</p> <p>A convoy led by AURC team and EA team will start at White Cliffs at <u>6AM AEST</u>, stopping at Glen Hope and Caradoc.</p> <p>Flight Safety Review will be open from <u>9AM - 12PM AEST</u>.</p> <p>Range closes at <u>2PM AEST</u> at the latest, Recovery teams are called back at <u>3PM AEST</u>, and the launch site closes at <u>4PM AEST</u>. No-one is permitted to stay at the launch site outside of opening hours. _</p>

Date	Event(s)
	The closing ceremony will be held at the White Cliffs Hotel and begin at <u>5PM AEST</u> , followed by dinner.

3 Conference Day Schedule Overview

Events scheduled include Conference Day Proceedings. The Conference Day Proceedings will occur at the White Cliffs Convention Hall and White Cliffs Hotel.

3.1 Poster Session Schedule

All sessions will occur at White Cliffs Community Hall. There will be 2 six-foot trestle tables for each team at each session. Each team should bring:

- Fully assembled rocket
- Fully assembled payload
- Poster with stand
- Team Banners or other decorations
- Any required information/evidence for flight safety review (i.e. video of successful ground test).
- Chairs (if required)

All displays should be able to be set-up/packed down within a timely matter, and teams should pack down their displays 5 minutes before the end of their session to prepare for the next session. 9am session teams will be able to set-up their displays after the group photo on Day 0 (Monday 28th AUG). There will be an opportunity for all other teams to store their display at the hall overnight. All teams must be packed up and the hall should be returned to its original state prior to **5PM AEST**.

The poster session will include poster and payload evaluations, as well as evaluations for category awards and industry awards. Flight safety review will occur simultaneously with the poster and payload marking.

Open Flight Safety Reviews will be available from **3PM - 5PM AEST**.

Spectators and other rocketeers are welcome to attend the sessions, but are asked to be respectful of the teams, judges, and the marking process.

Table 5:FSR/Poster/Payload Sessions

FSR/Poster/Payload Session	Teams
Session 1: 9AM – 11AM AEST	Adept Rocketry (5k COTS) Adept Rocketry (10k COTS) Monash HPR
Session 2: 11AM – 1PM AEST	UQ Space (5k COTS) UQ Space (10K Cots) QUTAS UWAC
Session 3: 1PM – 3PM AEST	USYD Rocketry RMIT Hive NU Rocketry

3.2 Presentation Schedule

Presentations will occur at White Cliffs hotel. Each team is allocated a 30-minute timeslot. There will be a projector and a screen available, please bring a laptop and cords to connect to the projector, as well as any items to assist your presentation. Presentations will be evaluated in accordance with *AURC Deliverables Requirements*.

Spectators and other rocketeers are welcome to watch the presentations but are asked to be respectful of the team presenting and the marking process.

Table 6: Presentation Schedule

Presentation Time (AEST)	Team
9AM	UWAC
9.30AM	QUTAS
10AM	RMIT Hive
10.30AM	UN Rocketry
11AM	Adept (5k COTS)
11.30AM	Adept (10k COTS)
12PM	Monash HPR
12.30PM	USYD Rocketry
1PM	UQ Space (5k COTS)
1.30PM	UQ Space (10k COTS)

THANK YOU

AYAA would like to express our thanks to you for competing in the 2025 Australian Universities Rocketry Competition. With your help, we can continue to strengthen the Australian space sector and provide industry relevant extracurricular experience to undergraduate and postgraduate university students of all STEM disciplines. Please do not hesitate to direct any questions about the AURC to auro@ayaa.com.au.

