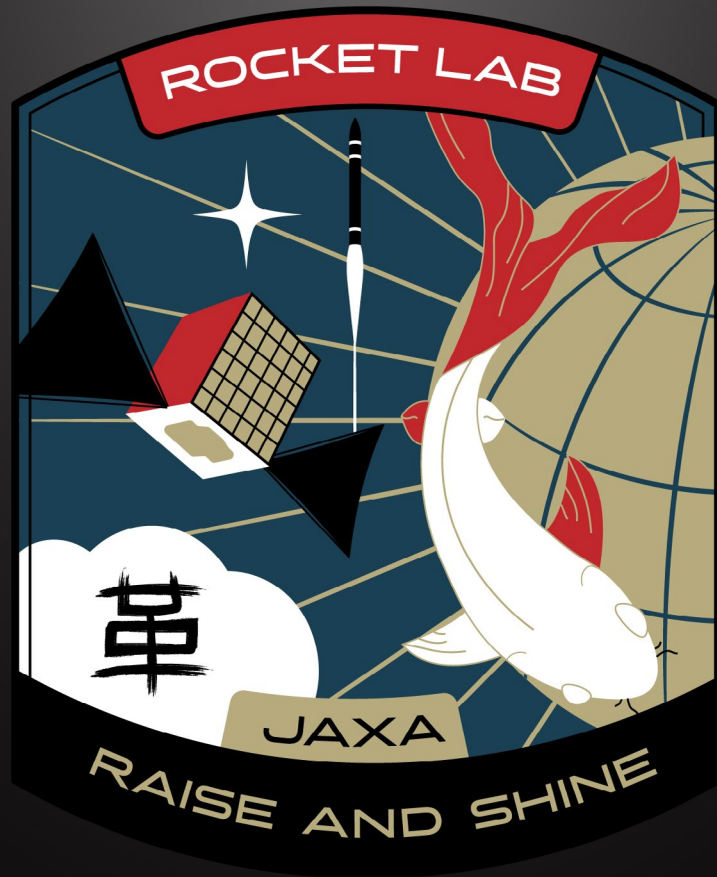




RAISE AND SHINE

NET DECEMBER 5 2025



Press Kit

rocketlabcorp.com



LAUNCH INFORMATION



MISSION

Rocket Lab will launch a dedicated mission for the Japan Aerospace Exploration Agency (JAXA).



LAUNCH SITE

Launch Complex 1 – Pad B
Mahia, New Zealand.



LAUNCH WINDOW

The launch window opens from December 5, 2025 for two weeks. Back up opportunities are available throughout December should the launch date change for any reason.

Time Zone	Window Open
UTC	December 5, 03:00
NZDT	December 5, 4:00 PM
JST	December 5, 12:00 PM
PT	December 4, 7:00 PM
ET	December 4, 10:00 PM



ORBIT

540 km

Circular Earth Orbit



SATELLITE

1

RAISE-4



INCLINATION

97.5

Degrees



CUSTOMER

JAXA

MISSION OVERVIEW

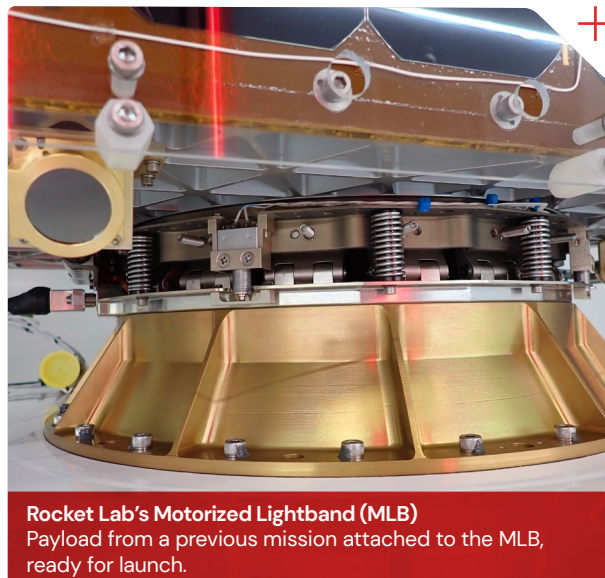
About 'RAISE and Shine'

'RAISE and Shine' is scheduled to launch from Rocket Lab Launch Complex 1 for the Japan Aerospace Exploration Agency (JAXA) – Rocket Lab's first dedicated Electron launch directly contracted with the Japanese space agency.



Launch Complex 1
Mahia, New Zealand, where 'RAISE and Shine' will launch from.

'RAISE and Shine' will be the first of two dedicated launches for JAXA on Electron, with the second launch scheduled to take place from Q1 2026 as a rideshare mission manifested by JAXA. Each mission will utilize a Rocket Lab Motorized Lightband; a separation system for the satellite to attach to and deploy from Electron once in space.



Rocket Lab's Motorized Lightband (MLB)
Payload from a previous mission attached to the MLB, ready for launch.

Rocket Lab will deploy JAXA's single RAPid Innovative satellite, called SatellitE-4 (RAISE-4). The spacecraft will demonstrate eight technologies developed by private companies, universities, and research institutions throughout Japan.



RAISE-4 Engineering model
The Rapid Innovative Payload Demonstration SatellitE-4

LAUNCHING FOR JAPAN

Rocket Lab has established itself as a launch leader for the Japanese space industry.

With over 20 dedicated missions booked to fly on Rocket Lab's Electron launch vehicle through to 2028, the partnership between Rocket Lab and Japanese satellite operators continues to strengthen, enabling the deployment of innovative new satellite constellations and advancing Japan's leadership in space exploration and technology.

Among the missions scheduled are constellation deployment launches for satellite operators iQPS and Synspecrive, both of which are pioneering advancements in synthetic aperture radar (SAR) technology for high-resolution Earth imaging.

These missions will play a vital role in disaster management, urban planning, and environmental monitoring, showcasing Japan's commitment to leveraging space-based solutions for societal benefit.

Rocket Lab's track record of delivering 100% mission success for Japanese customers underscores its reliability and expertise. Other successful missions for Japanese satellite operators include the ["On Closer Inspection"](#) mission on February 2024 for Astroscale-Japan for the first phase of its orbital debris removal program; and the ["Running Out Of Fingers"](#) mission launched in 2019 for Tokyo-based company ALE.

By providing responsive and reliable tailored launch services, Rocket Lab is proud to support Japan's vision for a sustainable and innovative future in space.

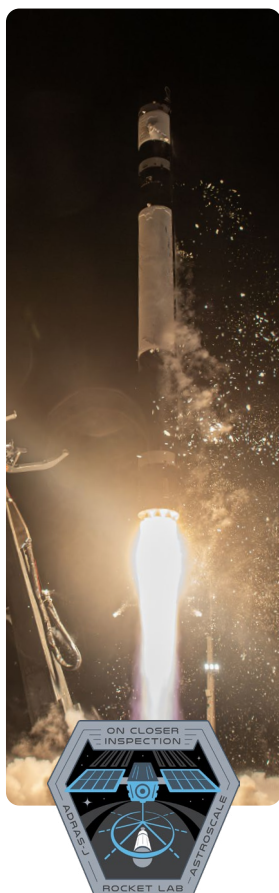
ALE
'Running Out Of Fingers'

LAUNCHED:
6 DEC 2019



Astroscale Japan Inc
'On Closer Inspection'

LAUNCHED:
19 FEB 2024



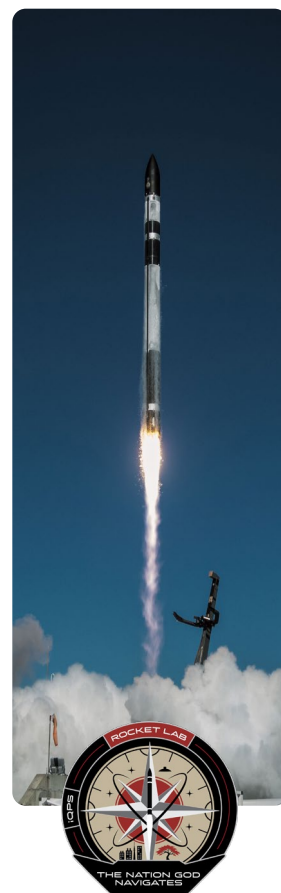
Synspecrive
'The Owl New World'

LAUNCHED:
14 OCT 2025



iQPS
'The Nation God Navigates'

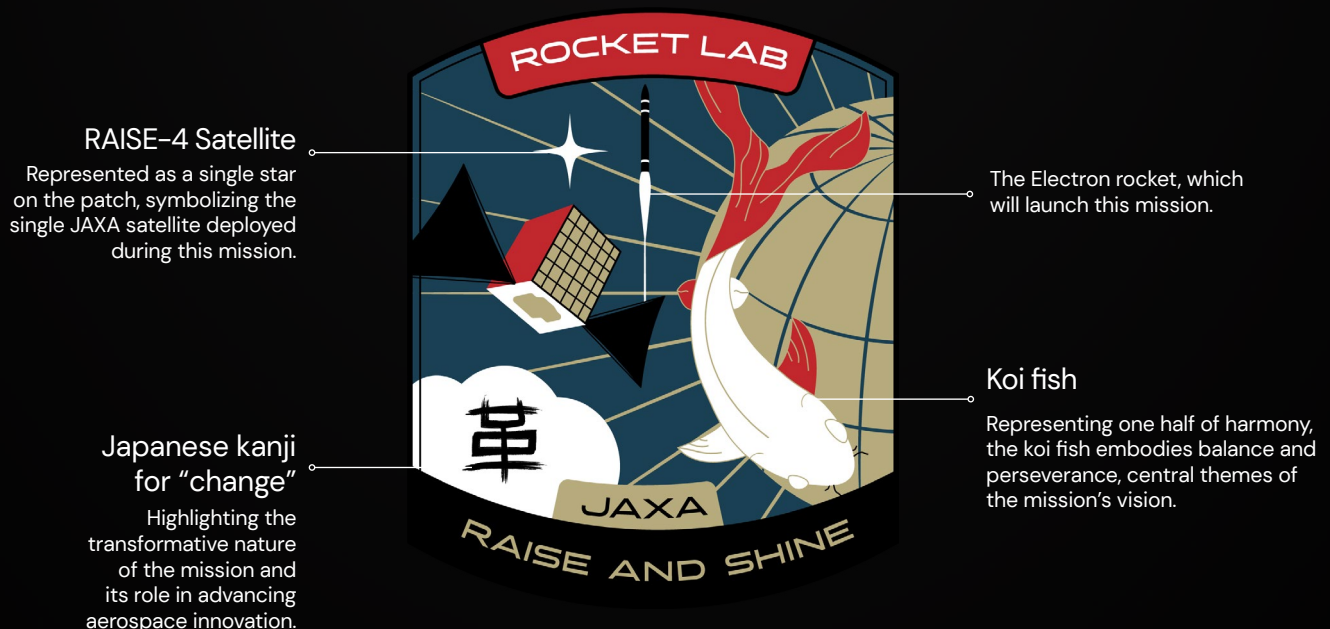
LAUNCHED:
5 NOV 2025



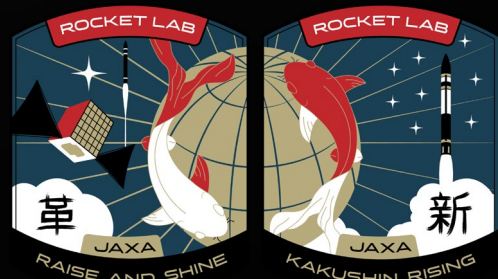
MISSION PATCH ANATOMY

'RAISE and Shine'

JAXA's 'RAISE and Shine' mission name is symbolic in nature, drawing inspiration from the imagery of two koi fish swimming in a circle, a representation of unity and harmony. This concept is further reflected in the mission patch design, which incorporates several meaningful elements.



Rocket Lab will launch a second mission for JAXA's Innovative Satellite Technology Demonstration Program in 2026 called "Kakushin Rising".



Mission merchandise can be found on the Rocket Lab merchandise store after launch day.

rocketlabcorp.com/shop

LAUNCH SITE OVERVIEW

Rocket Lab Launch Complex-1 Mahia, New Zealand



'RAISE and Shine' will lift off from Launch Complex 1 on New Zealand's Mahia Peninsula.

An FAA-licensed spaceport, Launch Complex 1 can provide up to 120 launch opportunities every year. From the site it is possible to reach orbital inclinations from sun-synchronous through to 30 degrees, enabling a wide spectrum of inclinations to service the majority of the satellite industry's missions to low Earth orbit.



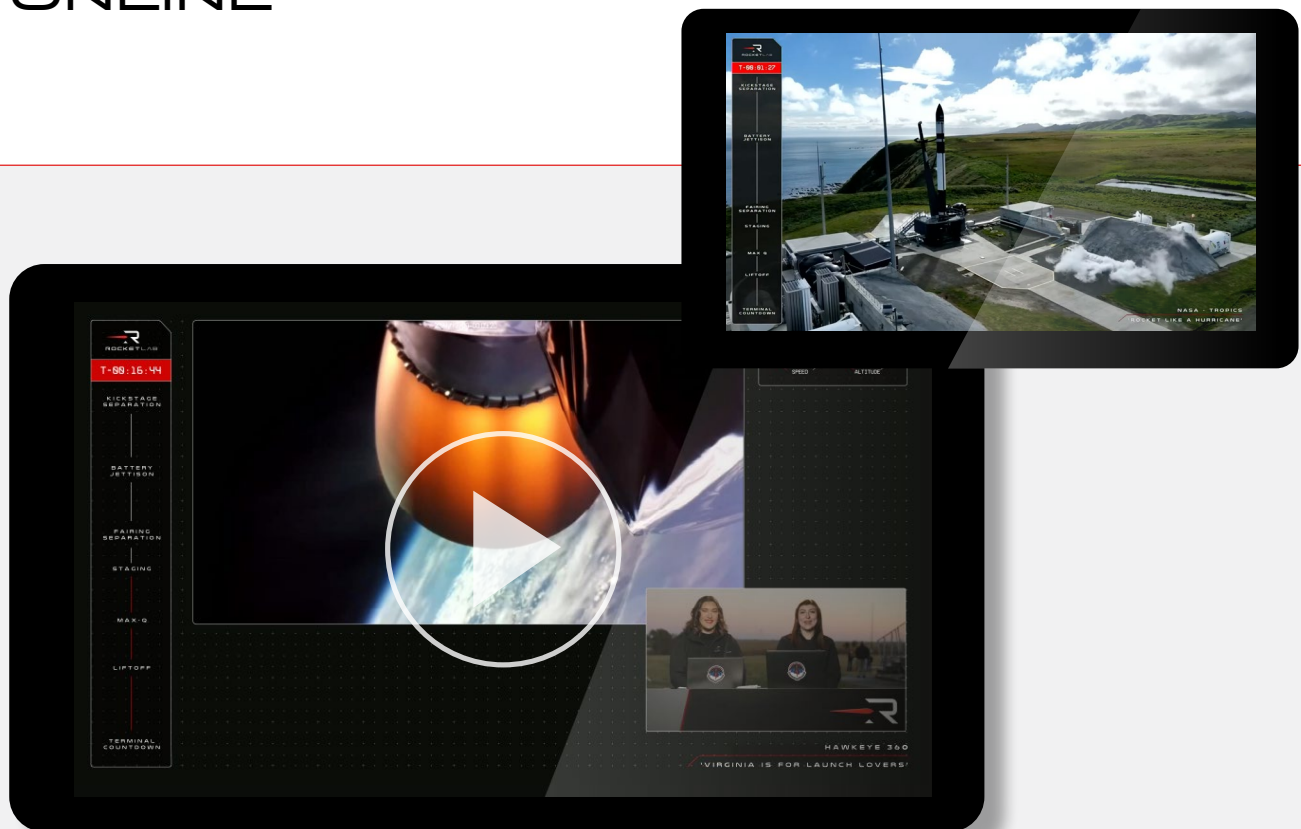
Located within Launch Complex 1 are Rocket Lab's private range control facilities, two 100K satellite cleanrooms, a launch vehicle assembly facility which can process multiple Electrons at once, and administrative offices.

Operating a private orbital launch site alongside its own range and mission control centres allows Rocket Lab to reduce the overhead costs per mission, resulting in a cost-effective launch service for satellite operators.

In addition to Launch Complex 1, Rocket Lab operates an additional launch site, Launch Complex 2, at the Mid-Atlantic Regional Spaceport within NASA's Wallops Flight Facility on Virginia's Eastern Shore. Launch Complex 2 can support up to 12 missions per year.

By operating two launch complexes in two hemispheres, Rocket Lab provides customers with flexible, responsive launch opportunities.

VIEWING A LAUNCH ONLINE



LIVE STREAM

The live stream is viewable at:

[rocketlabcorp.com/
live-stream](https://rocketlabcorp.com/live-stream)

LAUNCH FOOTAGE & IMAGES

Images and footage of 'RAISE and Shine' launch will be available shortly after a successful mission at:

www.flickr.com/photos/rocketlab

UPDATES

For information on launch day visit:

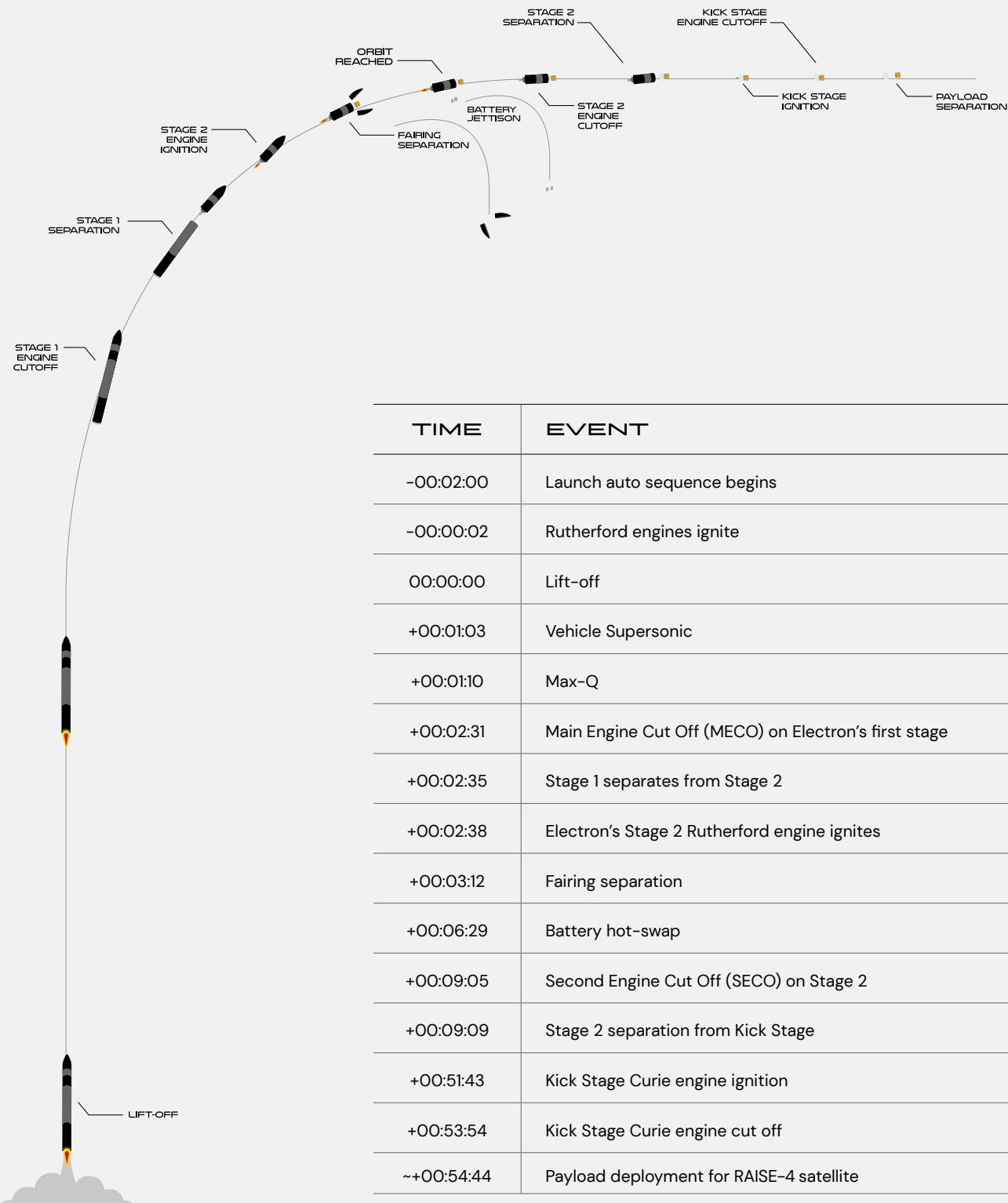
rocketlabcorp.com/next-mission

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[!\[\]\(9c2e8d1b5bd77cb5c9f83b7a9cff79fd_img.jpg\) @RocketLab](https://twitter.com/RocketLab)

[!\[\]\(e3275251d0893157c3584e20c81dc3ba_img.jpg\) facebook.com/RocketLabCorp](https://facebook.com/RocketLabCorp)

TIMELINE OF LAUNCH EVENTS



OVERALL

18m

1.2m

2 + Kick Stage

13,000kg

Carbon Fiber Composite/Monocoque

LOX/Kerosene

320kg / 440lbm To 500km

1.2m

2.5m

Pneumatic Unlocking, Springs

1x Rutherford Vacuum Engine

5800 LBF Vacuum

343 Sec

Pneumatic Pusher

9x Rutherford Sea Level Engines

5600 LBF Sea Level (Per Engine)

311 Sec



PAYLOAD PLATE

KICK STAGE

SECOND STAGE

RUTHERFORD VACUUM ENGINE

INTERSTAGE

FIRST STAGE

POWER PACK

9X RUTHERFORD
SEA LEVEL ENGINES

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