

A SKY FULL OF SARS

PRESS KIT | NET AUGUST 11, 2024

Rocket Lab USA, Inc.
rocketlabusa.com



LAUNCH INFORMATION



LAUNCH SITE

Launch Complex 1 – Pad B
Mahia, New Zealand.



LAUNCH WINDOW

The launch window opens August 11, 2024 for two weeks, with the launch window opening earlier each day as the days progress through the two week window. The following are timings for the first day of the mission's launch window. For subsequent days, see Rocket Lab's website for launch timing updates.

Time Zone	Window Open
NZT	23:15 PM August 11
UTC	11:15 August 11
EDT	07:15 AM August 11
PDT	04:15 AM August 11

Back up opportunities are available throughout August should the launch date change for any reason.



ORBIT

615km

Circular Earth orbit



SATELLITES

1

Acadia-3



INCLINATION

53

Degrees



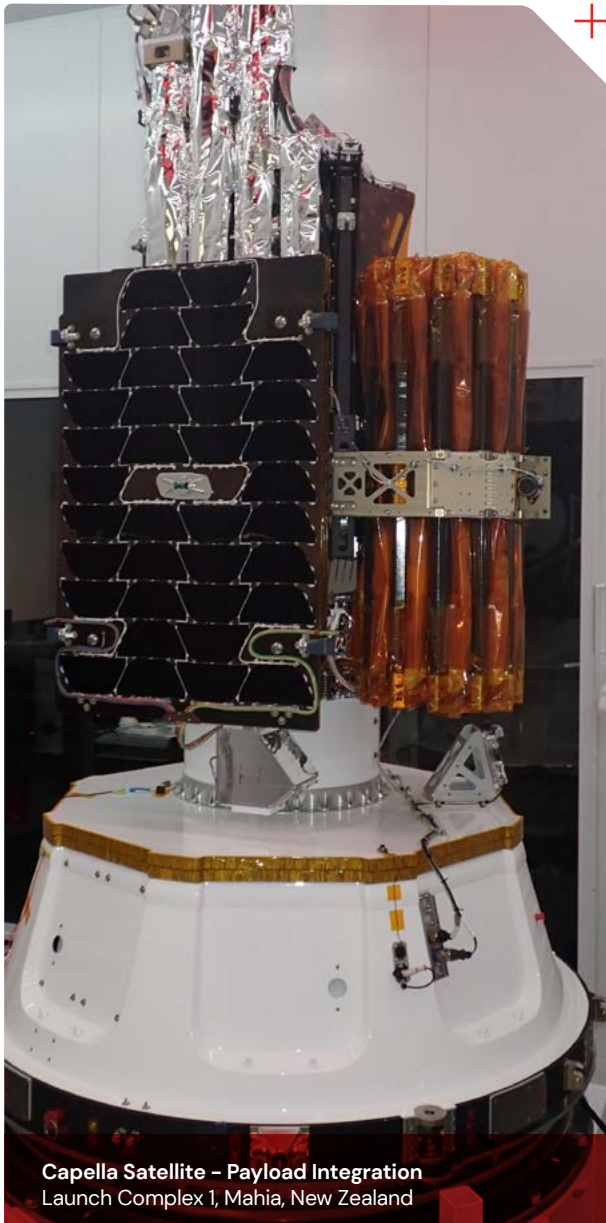
CUSTOMER

Capella Space

MISSION OVERVIEW

About 'About A Sky Full of SARs'

Rocket Lab will launch a dedicated mission for Capella Space, a provider of SAR imagery data and solutions for government and commercial applications.



'A Sky Full of SARs' will be Rocket Lab's fifth launch overall for Capella Space across multiple launch contracts beginning from 2020. The mission will deploy Acadia-3, the next satellite to join Capella Space's constellation of Synthetic Aperture Radar (SAR) satellites to deliver high quality and resolution SAR imagery globally.

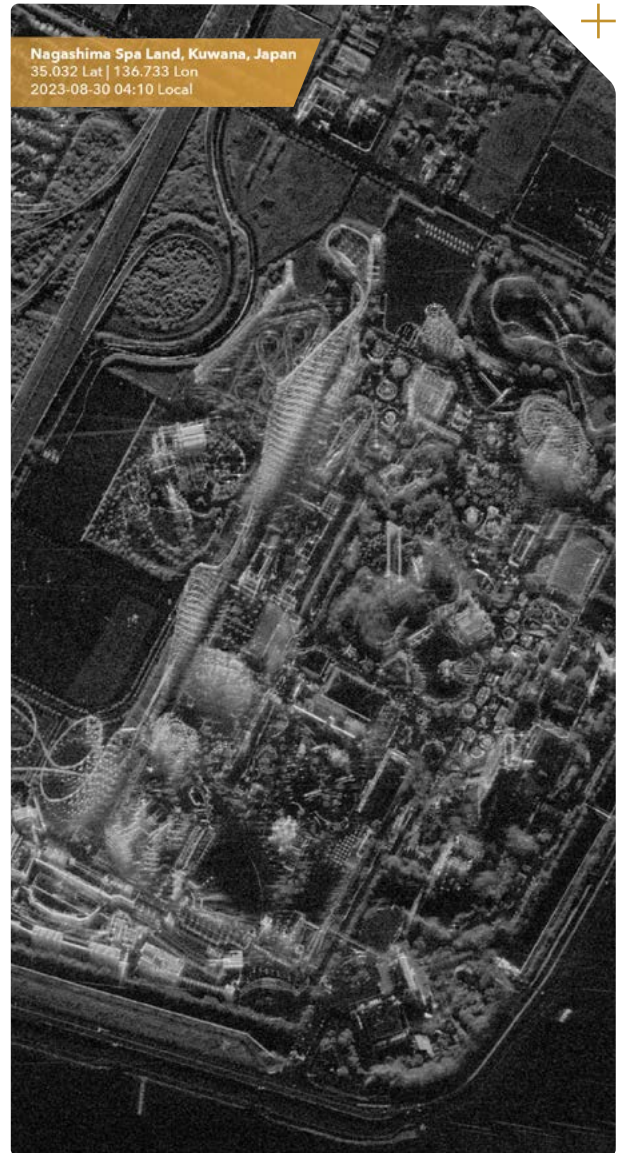
Previous Electron launches to have delivered Capella Space satellites to orbit include 'We Love The Nightlife' and 'Stronger Together' launched in 2023 from Rocket Lab's launch sites in the United States and New Zealand, and the 'I Can't Believe It's Not Optical' mission launched in 2020. Like earlier Capella Space launches with Electron, this mission will be supported by a Rocket Lab-manufactured Motorized Lightband; separation systems for the satellite to attach to and deploy from Electron once in space.

Capella Space provides easy access to frequent and timely information affecting dozens of industries worldwide, including defense and intelligence, supply chain, insurance, maritime and others. Its market-leading SAR satellites are matched with unparalleled data infrastructure to quickly deliver reliable global insights that sharpen our understanding of the changing world – improving decisions about commerce, conservation, and security on Earth.

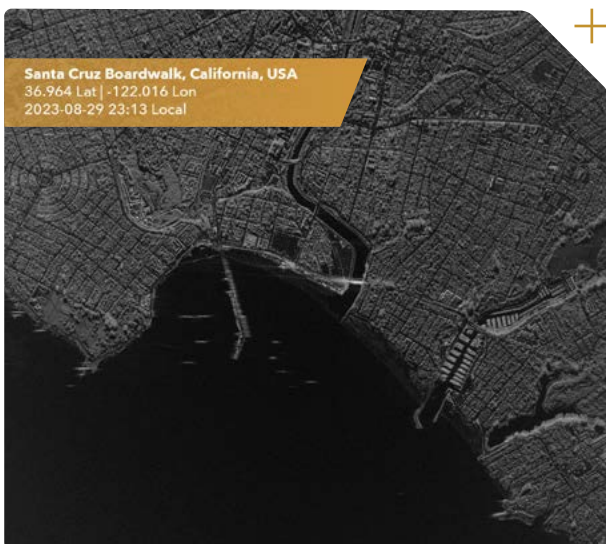
CAPELLA SPACE OVERVIEW



The leaders in Synthetic Aperture Radar



Capella's advanced radar technology penetrates all weather conditions – clouds, fog, smoke, rain – and captures clear imagery day and night, providing unparalleled insight into what is happening anywhere on the globe at any given moment.



Capella's strength lies in agile aerospace — the rapid design, deployment, testing and iteration of the industry's most sophisticated SAR satellites. With each new generation of satellites, customers benefit from faster delivery speeds and assured access to high-quality imagery where and when it's needed most.

Capella is the only commercial SAR provider that deploys its satellites in a variety of orbits, enabling rapid and frequent revisit over critically important areas of interest. This enables persistent imaging, even in regions where Earth observation data is limited.

LAUNCH SITE OVERVIEW

Rocket Lab Launch Complex-1
Mahia, New Zealand



'A Sky Full Of SARs' 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.

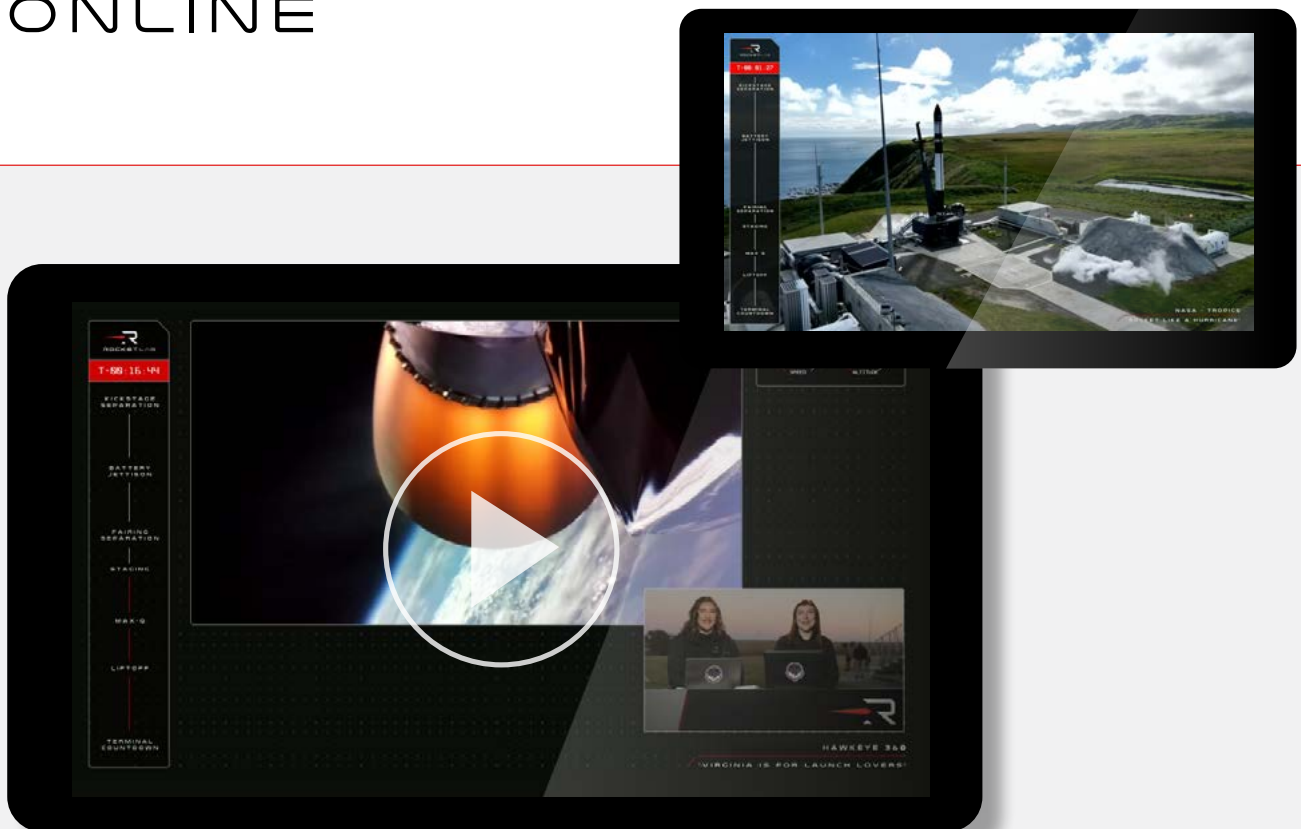
Operating a private orbital launch site alongside its own range and mission control centres allows Rocket Lab to reduce the overhead costs per mission, resulting in a cost-effective launch service for satellite operators.

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:

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

LAUNCH FOOTAGE & IMAGES

Images and footage of "A Sky Full Of SARs" launch will be available shortly after a successful mission at:

www.flickr.com/photos/rocketlab

UPDATES

For information on launch day visit:

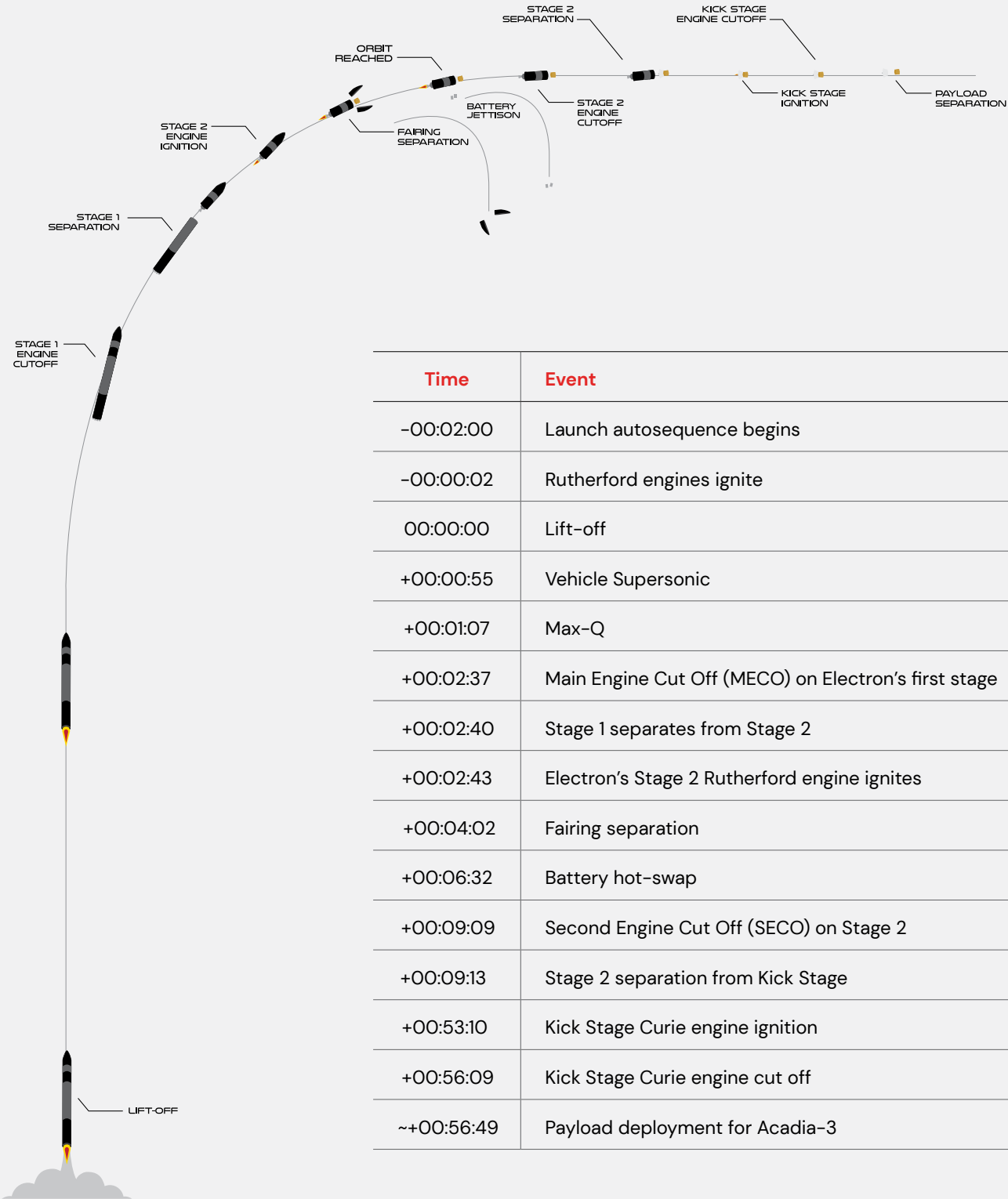
rocketlabusa.com/next-mission

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TIMELINE OF LAUNCH EVENTS



ELECTRON LAUNCH VEHICLE

OVERALL

LENGTH

18m

DIAMETER (MAX)

1.2m

STAGES

2 + Kick Stage

VEHICLE MASS (LIFT-OFF)

13,000kg

MATERIAL/STRUCTURE

Carbon Fiber Composite/Monocoque

PROPELLANT

LOX/Kerosene

PAYLOAD

NOMINAL PAYLOAD

320kg / 440lbm To 500km

FAIRING DIAMETER

1.2m

FAIRING HEIGHT

2.5m

FAIRING SEP SYSTEM

Pneumatic Unlocking, Springs

STAGE 2

PROPULSION

1x Rutherford Vacuum Engine

THRUST

5800 LBF Vacuum

ISP

343 Sec

INTERSTAGE

SEPARATION SYSTEM

Pneumatic Pusher

STAGE 1

PROPULSION

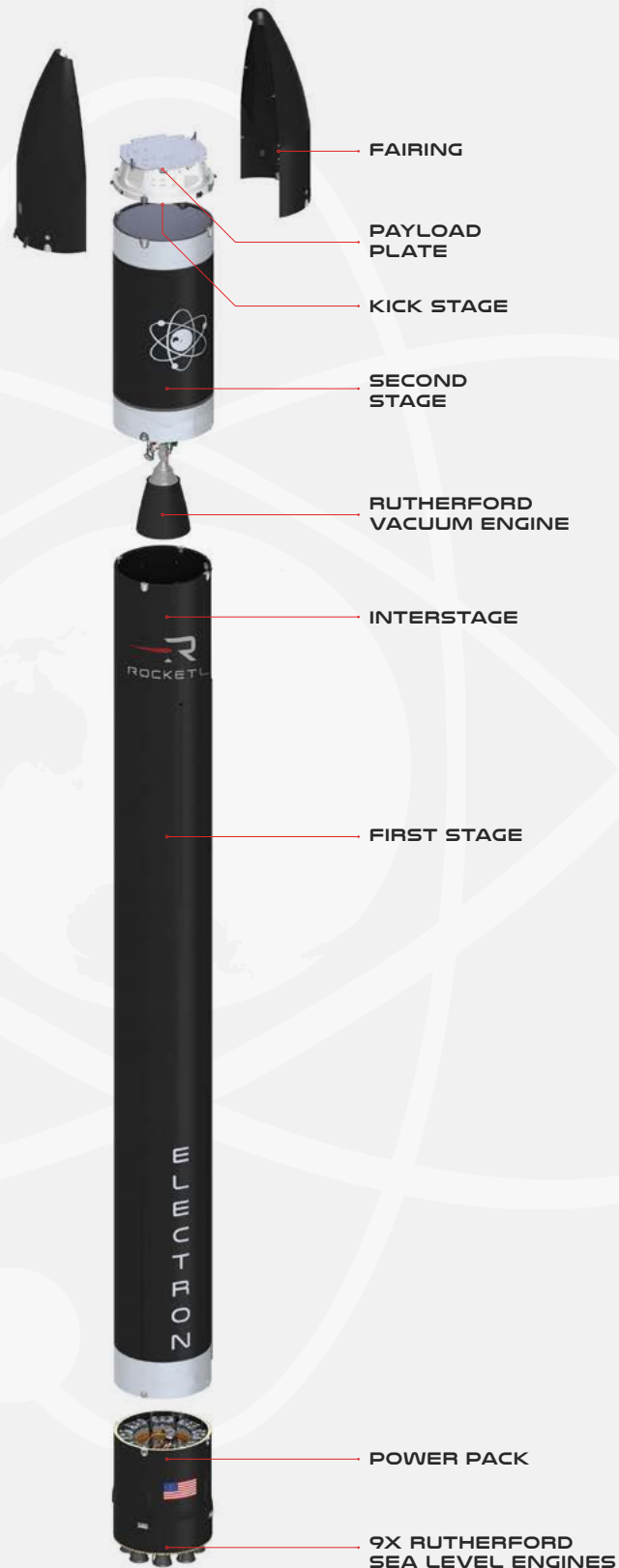
9x Rutherford Sea Level Engines

THRUST


5600 LBF Sea Level (Per Engine)


ISP

311 Sec





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