



# FASTEN YOUR SPACE BELTS

PRESS KIT | NET FEBRUARY 19 2025

Rocket Lab USA, Inc.  
[rocketlabusa.com](https://rocketlabusa.com)



# LAUNCH INFORMATION



## MISSION

Rocket Lab will launch a dedicated mission for BlackSky, a real-time space-based intelligence provider of satellite imaging and data analytics.



## LAUNCH SITE

Launch Complex 1 – Pad B  
Mahia, New Zealand.



## LAUNCH WINDOW

The launch window opens on February 19th NZDT and extends into late February. The opening of the launch window for this mission will shift slightly earlier each day of the launch period. Refer to the Rocket Lab website for the latest launch information.

Time Zone	Window Open
NZT	12:15 PM
UTC	23:15
EST	6:15 PM
PST	3:15 PM



## ORBIT

# 470 km

Circular Earth orbit



## SATELLITES

# 1

Gen-3 satellite



## INCLINATION

# 59

Degrees



## CUSTOMER

# BlackSky

# MISSION OVERVIEW

About 'Fasten Your Space Belts'

'Fasten Your Space Belts' will be Rocket Lab's ninth launch overall for BlackSky across multiple launch contracts beginning from 2019. The mission will introduce their newest 35cm high-resolution Gen-3 satellites to orbit, allowing them to greatly enhance and optimize their geospatial intelligence capabilities.



Like earlier Black Sky launches on 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.





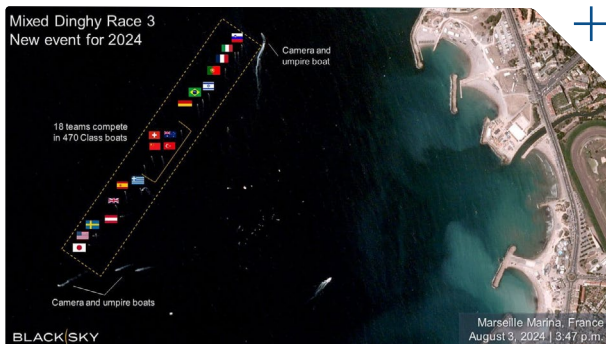
# BLACKSKY OVERVIEW



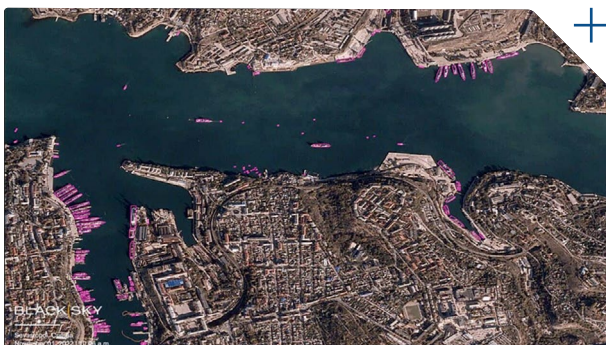
## About BlackSky

BlackSky is a real-time, space-based intelligence company that delivers on-demand, high frequency imagery, analytics, and high-frequency monitoring of the most critical and strategic locations, economic assets, and events in the world.

BlackSky owns and operates one of the industry's most advanced, purpose-built commercial, real-time intelligence systems that combines the power of the BlackSky Spectra® tasking and analytics software platform and our proprietary low earth orbit satellite constellation.



**Marseille / France**  
2024/08/03 | Mixed Dinghy Race for the 2024 Olympics



**Port of Sevastopol**  
Russia's Military Withdrawal from the Port of Sevastopol



**Sihanoukville / Cambodia**  
June 2022 (on left) and July 2023 (on right), images show the newly created deepwater angled pier at Ream.

Adding Gen-3 capabilities will provide our customers with transformative space-based intelligence that will deliver a next level of performance with low-latency, very high-resolution imagery and AI-enabled analytics for a first-to-act advantage. It's intelligence at the speed of conflict.

In less than two years from the completion of our Gen-2 constellation, BlackSky is yet again setting new industry standards for speed and agility as we prepare for the company's first very-high resolution Gen-3 satellite.

The evolution of BlackSky's constellation will continue to optimize for increased capacity and flexibility with the regular addition of Gen-3 satellites. Gen-3 customers will be able to conduct the automated detection, identification and classification of a wide library of vehicles, aircraft, vessels and other objects of tactical interest.

Low-latency intersatellite communications will give customers the flexibility to conduct high-priority, last-minute tasking. These new capabilities will further enable BlackSky's space-based intelligence applications for tactical ISR missions and strategic intelligence operations

# BLACKSKY MISSIONS OVERVIEW

This mission is the ninth launch for BlackSky since 2019, making Rocket Lab the most prolific launch provider for BlackSky's constellation to date.

'Make it Rain'

LAUNCHED: 29 JUNE 2019



'Look Ma, No Hands'

LAUNCHED: 19 AUGUST 2019



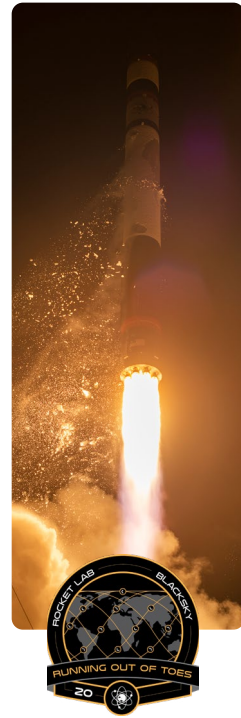
'They Go Up So Fast'

LAUNCHED: 22 MARCH 2021



'Running Out Of Toes'

LAUNCHED: 15 MAY 2021



'Love At First Insight'

LAUNCHED: 18 NOV 2021



'A Data With Destiny'

LAUNCHED: 9 DEC 2021



'Without Mission A Beat'

LAUNCHED: 2 APRIL 2022



'The Beat Goes On'

LAUNCHED: 24 MARCH 2023



'Fasten your Space Belts'

LAUNCHING: 19 FEB 2025





# LAUNCH SITE OVERVIEW

**Rocket Lab Launch Complex-1**  
Mahia, New Zealand



'Fasten Your Space Belts' 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.

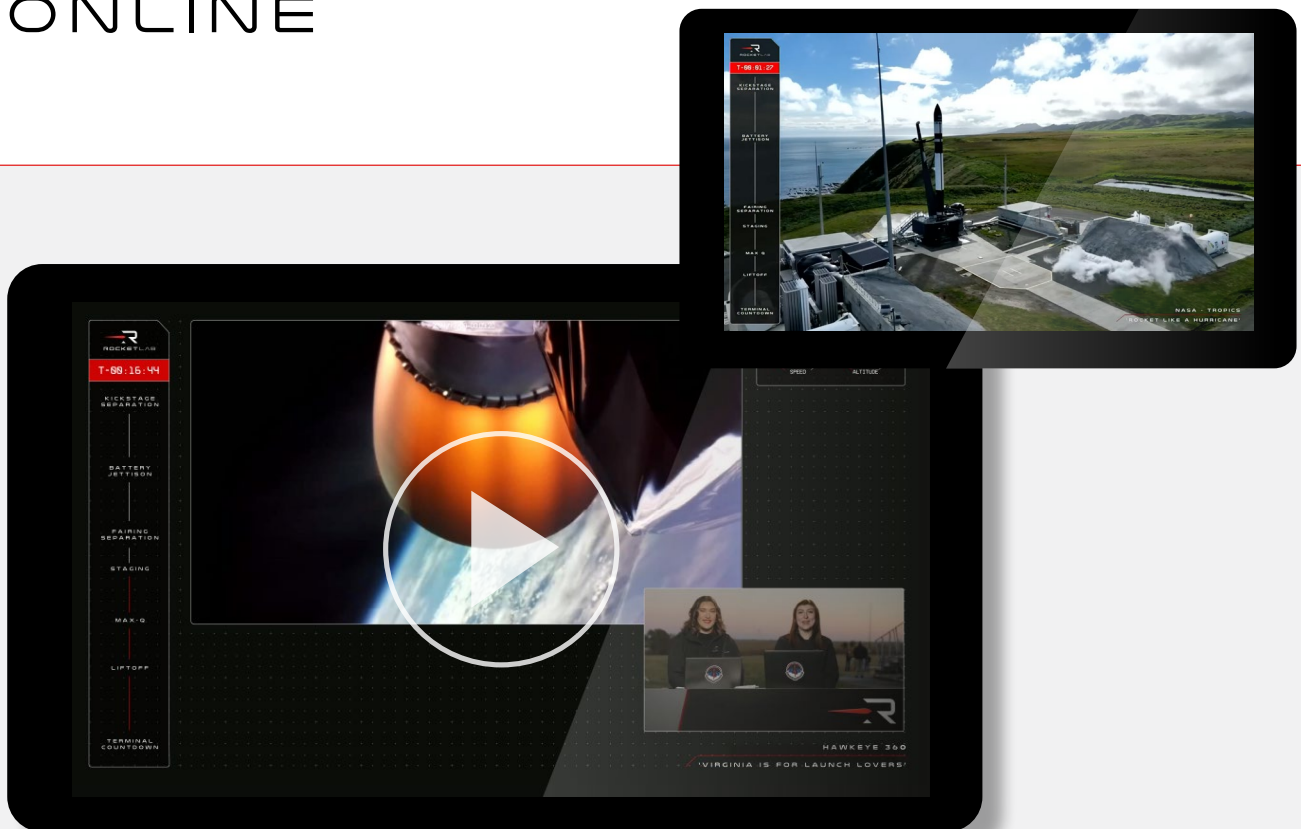
Operating a private orbital launch site alongside its own range and mission control centres allows Rocket Lab to reduce the overhead costs per mission, resulting in a cost-effective launch service for satellite operators.

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 'Fasten Your Space Belts' launch will be available shortly after a successful mission at:

[www.flickr.com/photos/rocketlab](https://www.flickr.com/photos/rocketlab)

## UPDATES

For information on launch day visit:

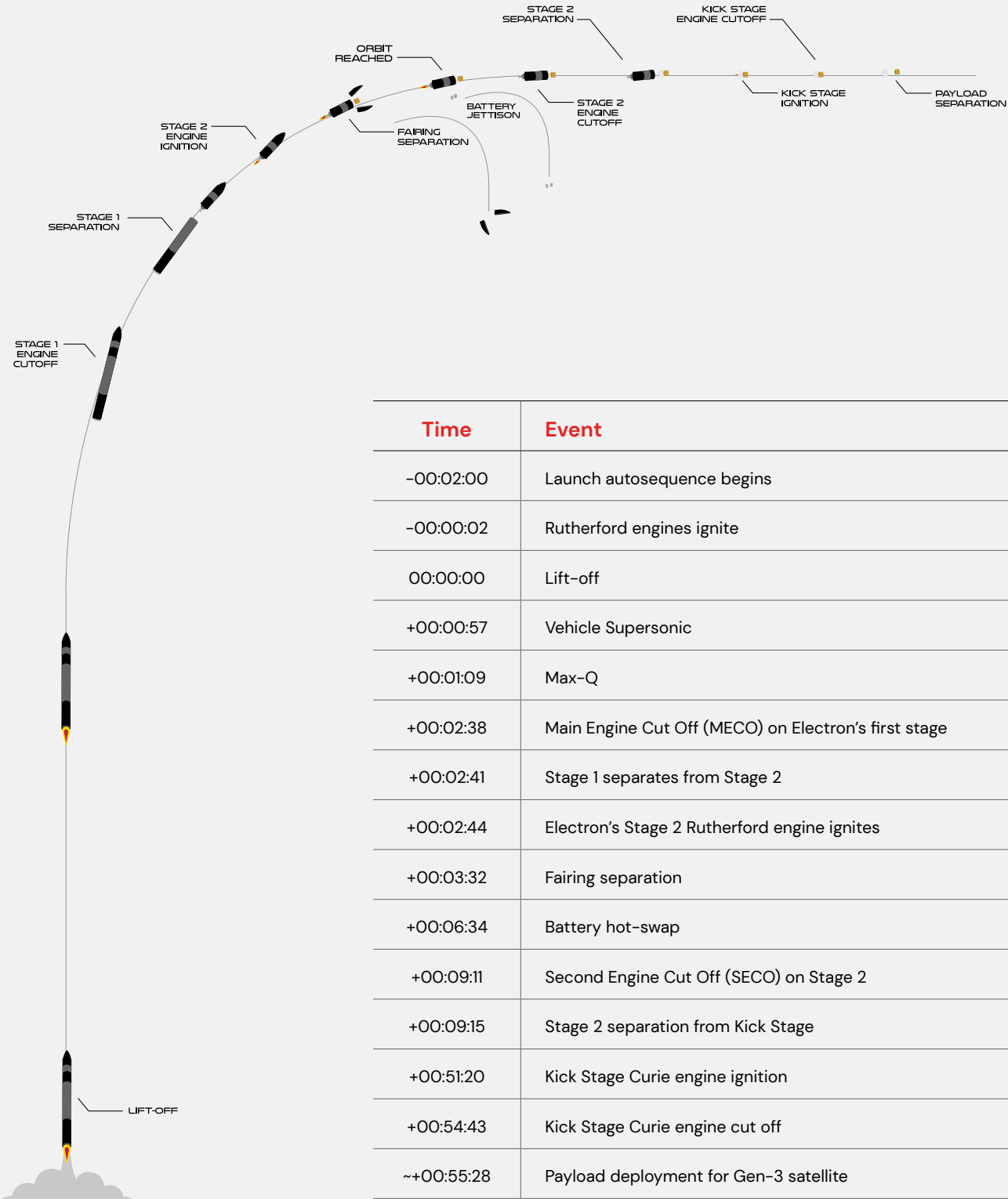
[rocketlabusa.com/next-mission](https://rocketlabusa.com/next-mission)

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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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