FULL STREAM AHEAD

PRESS KIT | NET JUNE 2, 2025

Rocket Lab USA, Inc.
rocketlabusa.com

ROCKETLAB

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 from June 2, 2025, and is open for two weeks. Back up opportunities extend through to June should the launch date change for any reason.

Time Zone	Window Open
NZT	11:30 AM (June 3)
UTC	23:30
EST	7:30 PM
MST	5:30 PM
PST	4:30 PM

ORBIT

470 km
Circular Earth orbit

SATELLITES

1
Gen-3 satellite

INCLINATION

59
Degrees

CUSTOMER

BlackSky

MISSION OVERVIEW

About ‘Full Stream Ahead’

‘Full Stream Ahead’ will be Rocket Lab’s tenth Electron launch for BlackSky, continuing a successful partnership that began in 2019.

‘Fasten Your Space Belts’ Launch
Launch Complex 1, Mahia, New Zealand, 19 February 2025

This mission will deploy BlackSky’s Gen-3 satellite to a 470km Low Earth Orbit, where it will join BlackSky’s Earth-imaging constellation serving geospatial intelligence by providing real-time, rapid, and actionable data to meet customer needs.

Previous BlackSky Mission: ‘Fasten Your Space Belts’
Payload integration before launch

The Gen-3 satellite will be deployed into space using a Motorized Lightband manufactured by Rocket Lab. ‘Full Stream Ahead’ will be Rocket Lab’s second Electron launch for this company this year, following the earlier successful mission ‘Fasten Your Space Belts’ launched on February 19, 2025.

Previous BlackSky Mission: ‘Fasten Your Space Belts’
Payload integration before launch

BLACKSKY OVERVIEW

BLACKSKY

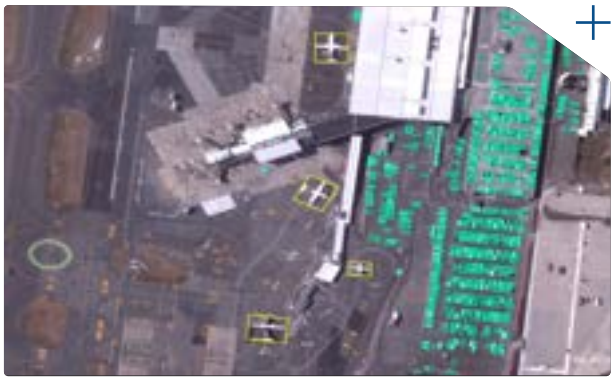
About BlackSky

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.

Sydney / Australia
2 March 2025, Sydney Harbour Bridge

BlackSky delivered the first very high-resolution images from our inaugural Gen-3 satellite just five days following its successful launch on February 18. Three weeks after launch, BlackSky delivered its first AI-enabled analytics. These significant milestones demonstrate how BlackSky's AI-automated detection and identification algorithms accurately transform Gen-3's fine-detailed imagery into actionable, precision insights at machine speed and scale over tactical objects of interest.



Wellington / New Zealand
June 2022 (on left) and July 2023 (on right), images show the newly created deepwater angled pier at Ream.

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.

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 enables 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 unlock new applications for tactical ISR missions and strategic intelligence operations.

To learn more, visit www.blacksky.com and follow us on X.

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

BLACKSKY MISSIONS OVERVIEW

This mission is the tenth 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

'Full Stream Ahead'
LAUNCHING: 27 MAY 2025

LAUNCH SITE OVERVIEW

Rocket Lab Launch Complex-1
Mahia, New Zealand

> ‘Full Stream Ahead’ 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.

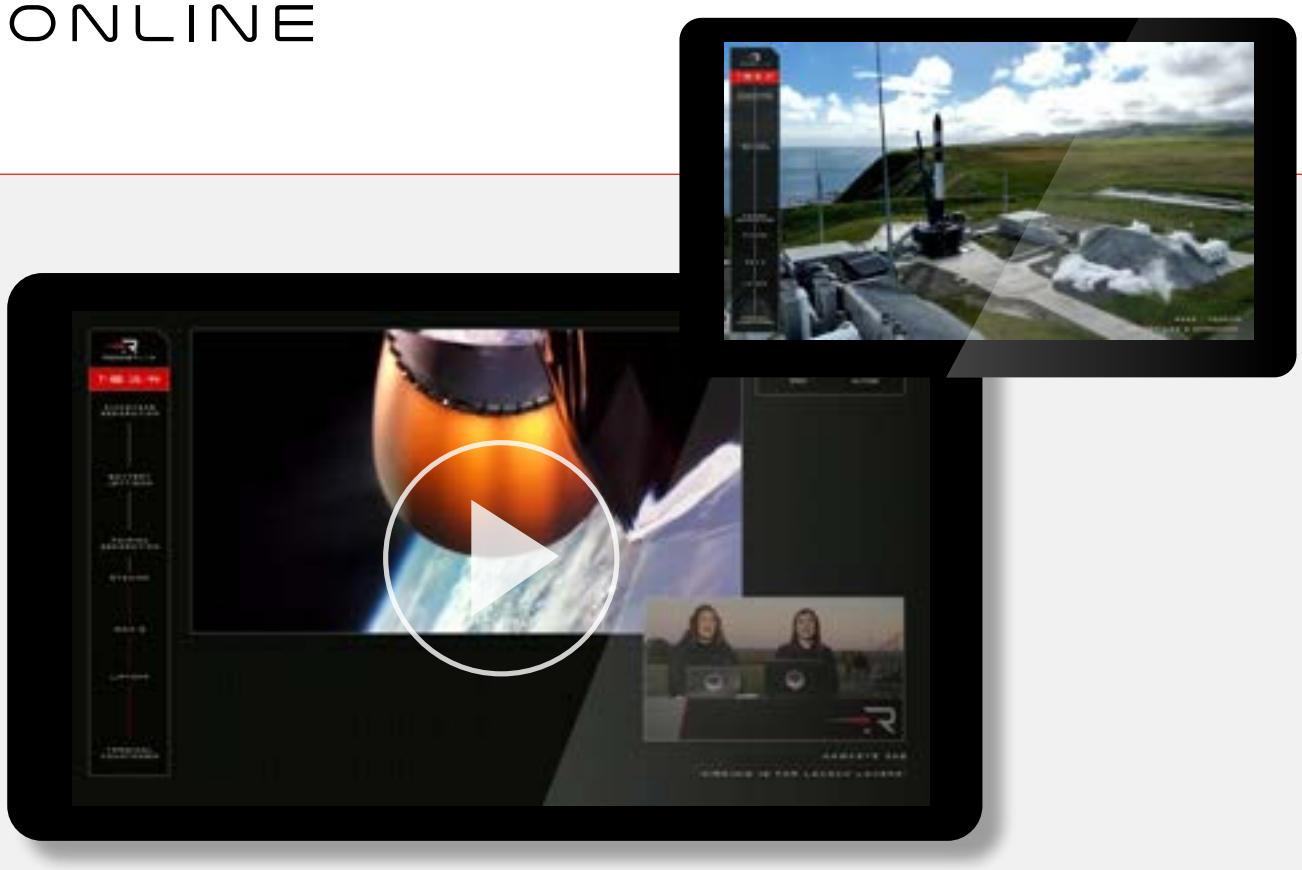
Located within Launch Complex 1 are Rocket Lab’s private range control facilities, two 100K satellite cleanrooms, a launch vehicle assembly facility which can process multiple Electrons at once, and administrative offices.

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

LAUNCH FOOTAGE & IMAGES

Images and footage of 'Full Stream Ahead' 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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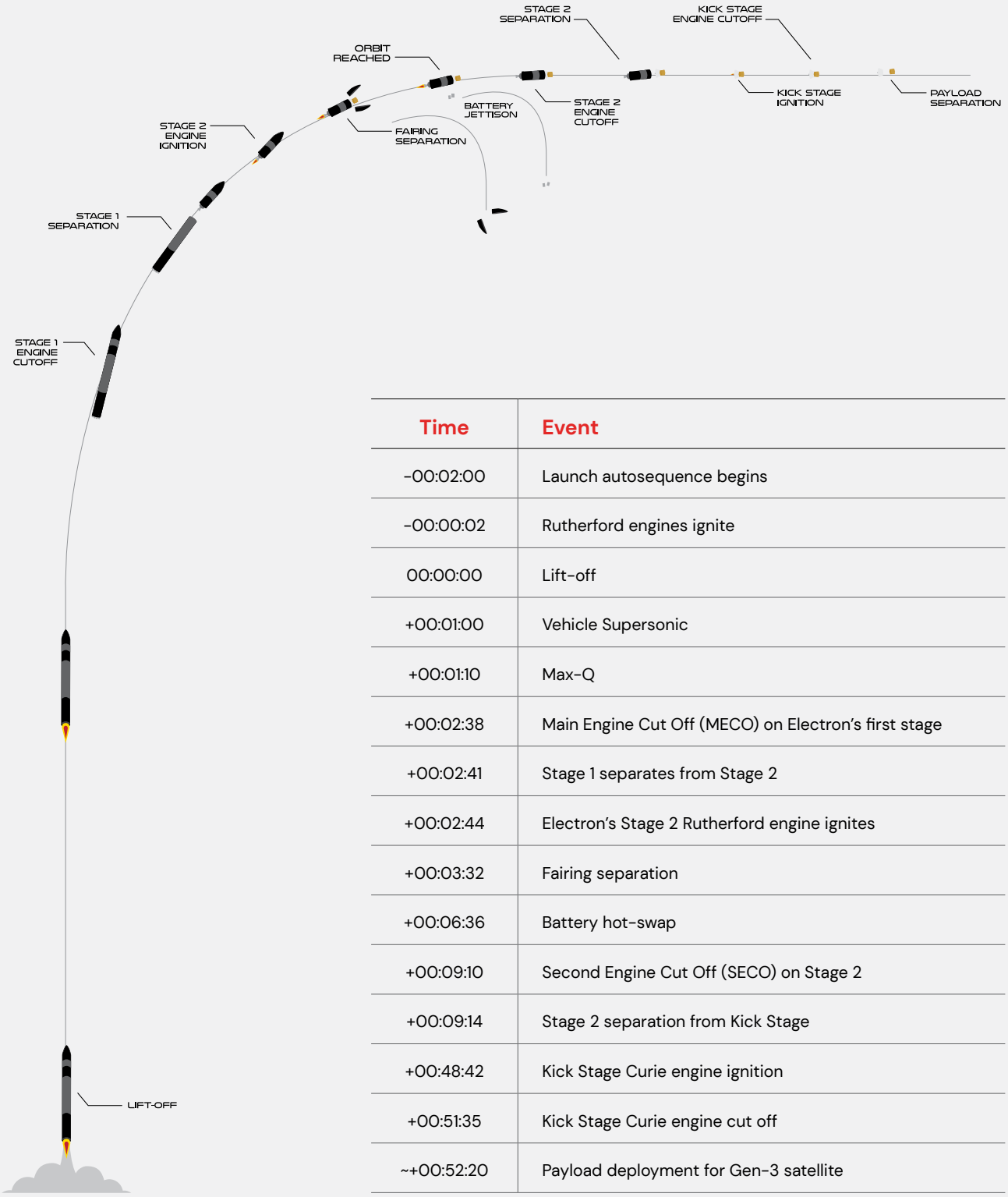
TIMELINE OF LAUNCH EVENTS



Time	Event
-00:02:00	Launch autosequence begins
-00:00:02	Rutherford engines ignite
00:00:00	Lift-off
+00:01:00	Vehicle Supersonic
+00:01:10	Max-Q
+00:02:38	Main Engine Cut Off (MECO) on Electron's first stage
+00:02:41	Stage 1 separates from Stage 2
+00:02:44	Electron's Stage 2 Rutherford engine ignites
+00:03:32	Fairing separation
+00:06:36	Battery hot-swap
+00:09:10	Second Engine Cut Off (SECO) on Stage 2
+00:09:14	Stage 2 separation from Kick Stage
+00:48:42	Kick Stage Curie engine ignition
+00:51:35	Kick Stage Curie engine cut off
~+00:52:20	Payload deployment for Gen-3 satellite

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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