



LIVE AND LET FLY

PRESS KIT | LAUNCH WINDOW OPENS 21 MARCH, 2024

Rocket Lab USA, Inc.
rocketlabusa.com



LAUNCH INFORMATION

Rocket Lab will launch a dedicated mission for the National Reconnaissance Office.



LAUNCH WINDOW

Launch window opens
21 March 2024.

Backup opportunities are available throughout March should the launch date need to be updated for any reason.



DAILY LAUNCH OPPORTUNITY

Time Zone	Window Open
UTC	05:30 - 06:45 am 21 Mar 2024
EDT	01:30 - 02:45 am 21 Mar 2024
PDT	10:30 pm - 11:45 pm 21 Mar 2024
NZDT	06:30 pm - 7:45 pm 22 Mar 2024



LAUNCH SITE

LC-2

Mid-Atlantic Regional Spaceport,
NASA Wallops Flight Facility.



PAYLOAD

NROL-123



CUSTOMER

NRO

National Reconnaissance Office

MISSION OVERVIEW

About 'Live And Let Fly'

The NROL-123 mission, called 'Live and Let Fly', will be Rocket Lab's first launch for the NRO from the United States after previously launching four NRO missions from Launch Complex 1 on New Zealand's Mahia Peninsula.



Launch: 'Stronger Together'
Launch Complex 2, Wallops, Virginia, USA



Previous NRO Launch: 'Antipodean Adventure'
Launch Complex 1, New Zealand, 4 August 2022

It will be Rocket Lab's 4th mission from Launch Complex 2, a dedicated pad for the Electron rocket located at Virginia Spaceport Authority's Mid-Atlantic Regional Spaceport within the NASA Wallops Flight Facility in Virginia.

The launch service was acquired using NRO's Rapid Acquisition of a Small Rocket (RASR) contract. RASR enables the NRO to explore new opportunities for launching small satellites through a streamlined, commercial approach. NRO missions provide critical information to more than a half-million government users, including every member of the Intelligence Community, two dozen domestic agencies, the military, lawmakers, and decision makers.

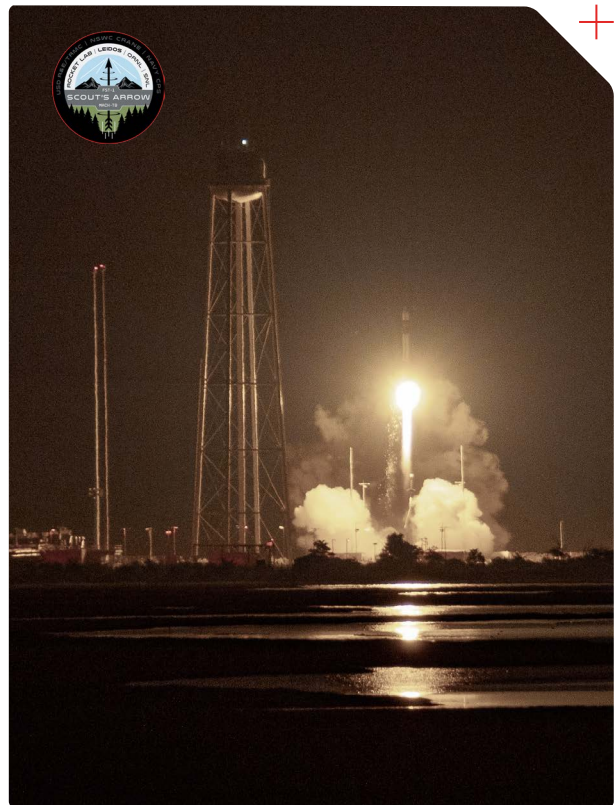
The mission will be Rocket Lab's 4th launch of 2024 and Rocket Lab's 46th Electron launch overall.

LAUNCH SITE OVERVIEW

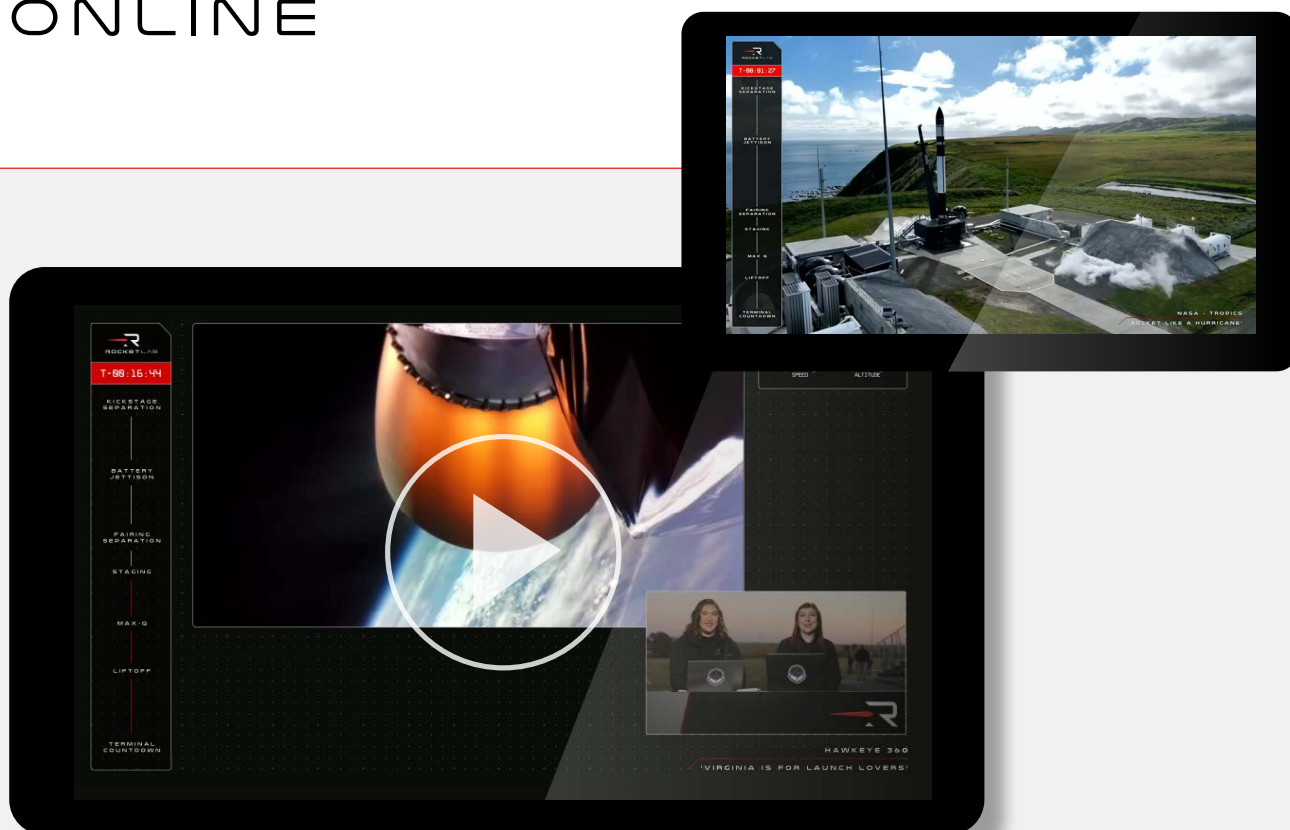
Rocket Lab Launch Complex-2
Wallops Island, Virginia



'Live & Let Fly' will lift off from Launch Complex 2 Virginia Spaceport Authority's Mid-Atlantic Regional Spaceport within the NASA Wallops Flight Facility in Virginia. It will be Rocket Lab's fourth launch from the site since launches began from the pad in January 2023.



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 "Live And Let Fly" 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

FOLLOW ROCKET LAB:

[@RocketLab](https://twitter.com/RocketLab)

facebook.com/RocketLabUSA

VIEWING A LAUNCH IN PERSON

Rocket Lab encourages launch lovers to watch Electron's next launch from U.S. soil in person.

Visit one of these locations to watch Electron take to Virginia skies.

QUEEN'S SOUND LANDING

Along Causeway on Rt 175 to Chincoteague Island, VA

Directions:

- From Rt 13, turn east at Ts Corner stop light onto Chincoteague Rd/VA-175
- Follow Rt 175 7.9 miles to public boat landing on right
- NOTE: there is NO PARKING permitted on Rt 175.

NASA VISITOR'S CENTER

Building J20 Route, 175 Chincoteague Rd, Wallops Island, VA 23337, United States

The NASA Wallops Visitor Center will not be open for launch viewing, but please feel free to visit the new Rocket Lab exhibit at the center between 10am - 4pm, Tuesday - Saturday.

TOWN DOCK/ROBERT REED PARK

4083 Main Street, Chincoteague Island, VA

Directions:

- From Rt 13, turn east at T's Corner stop light onto Chincoteague Rd/ VA-175
- Follow Rt 175 across causeway and bridges to Chincoteague Island
- Turn right at the stop light onto Main Street, heading south
- Park is approximately .5 mile on the right. Parking of entrance is at Don's Seafood.

CURTIS MERRITT HARBOR

2246 Curtis Merritt Harbor Rd., Chincoteague Island, VA

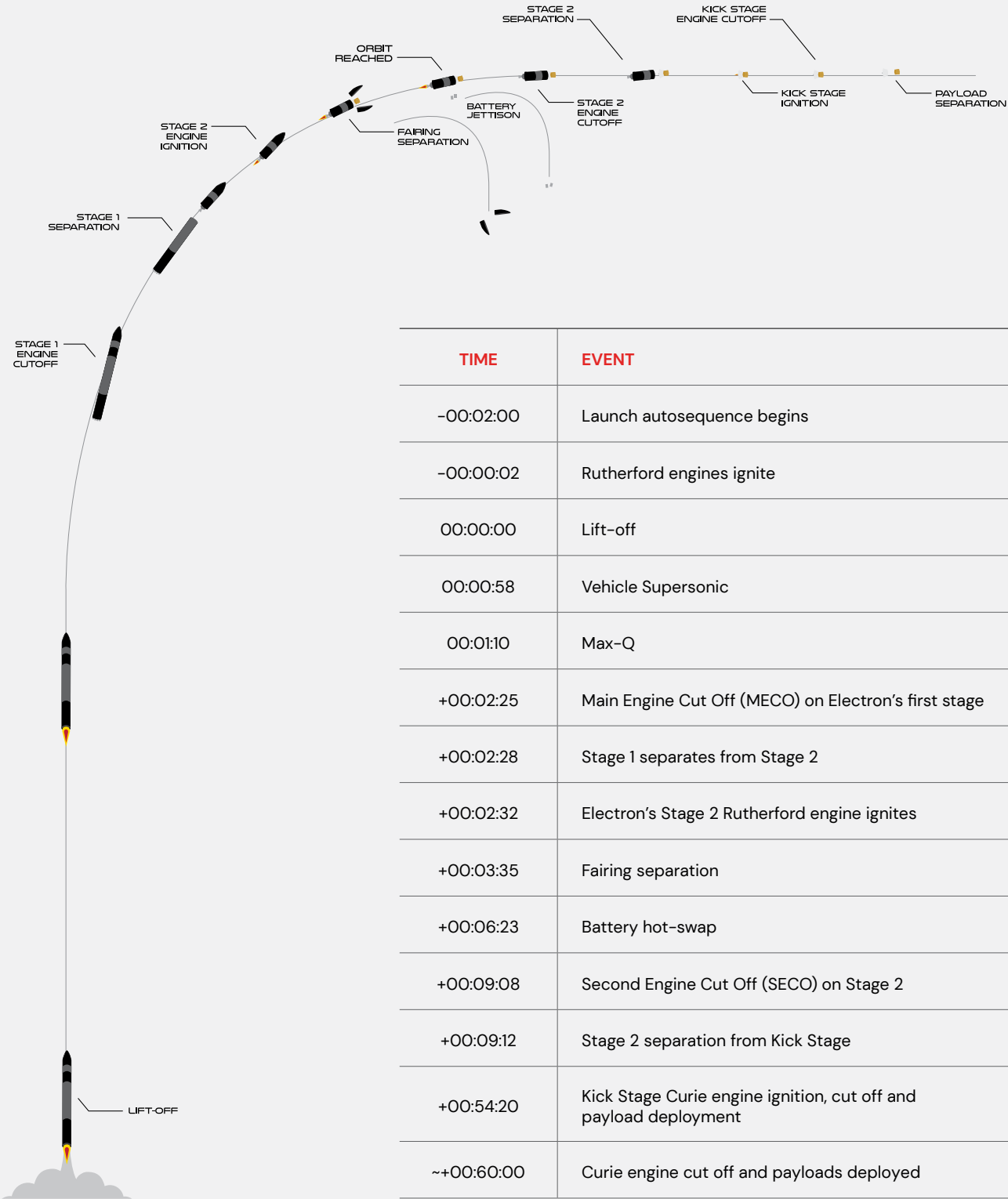
Directions:

- From Rt 13, turn east at T's Corner stop light onto Chincoteague Rd/VA-175
- Follow Rt 175 across causeway and bridges to Chincoteague Island
- Turn right at the stop light onto Main Street, heading south
- The entrance to the Harbor is near the end of the road on the left.

For more information about launch viewing locations, please visit or contact the Chincoteague Island Visitor's Center and Chamber of Commerce.

6733 Maddox Blvd.
Chincoteague Island, VA
info@chincoteaguechamber.com

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

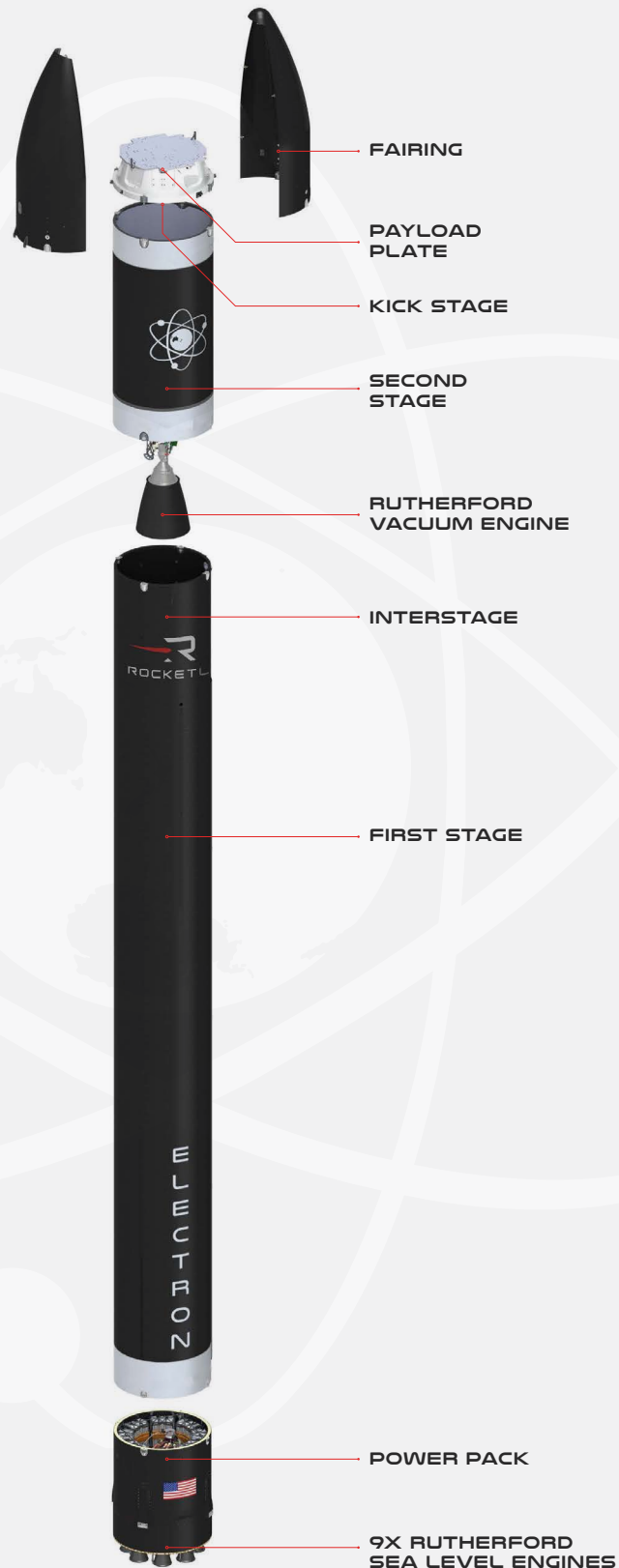
9x Rutherford Sea Level Engines

THRUST

5600 LBF Sea Level (Per Engine)

ISP

311 Sec



MISSION PATCH ANATOMY

'Live And Let Fly'




The Pegasus represents speed, strength, and artistic inspiration. Encompassing beauty and a sense of majesty, it is a guide for humankind beyond the physical world to the realm where the spirit can soar without limit. The pegasus is also a nod to the ponies of Chincoteague. Wasps, Fish and DragonFly have been included to reference the NROL 123 Patch.


Mission merchandise, including this mission patch, can be found online at: rocketlabusa.com/shop




NROL-123 Patch


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