



IT ARGOS UP FROM HERE

PRESS KIT | NET 5 OCTOBER 2022 UTC

Rocket Lab USA, Inc.
rocketlabusa.com



LAUNCH INFORMATION



LAUNCH SITE

Launch Complex 1, Pad B
Mahia, New Zealand



LAUNCH WINDOW

Opens NET 5 October 2022 UTC



DAILY LAUNCH OPPORTUNITY

Time Zone	Window Open
UTC	17:04
NZST	06:04 (6 Oct.)
EDT	13:04
PDT	10:04



ORBIT

750km



SATELLITES

1



INCLINATION

98

Degrees



CUSTOMER

General Atomics

Dedicated mission

MISSION OVERVIEW

ABOUT "IT ARGOS UP FROM HERE"

"It Argos Up From Here" is Rocket Lab's 31st Electron mission and the first partnership between Rocket Lab and General Atomics.



Launch Complex 1
Mahia, New Zealand

Launching from Pad B at Launch Complex 1 on New Zealand's Mahia Peninsula, Rocket Lab will deliver General Atomics' GAZelle satellite carrying Argos-4 to orbit.

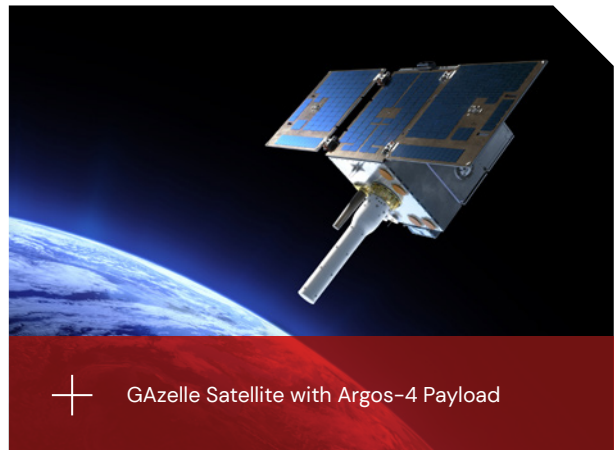
The Argos-4 payload is part of the international Argos program that collects data from thousands of sensors and transmitters located around the world. Argos data is collected and distributed for use in numerous applications, and helps provide a better understanding of Earth's physical and biological environment, including its weather and climate, biodiversity and ecosystems, as well as assist with maritime security, offshore pollution, and humanitarian assistance. Information gathered via the Argos system also enables industries to comply with environmental protection regulations. Argos has most famously been used to track wildlife, particularly marine mammals and sea turtles since the 1980s. There are currently 22,000 active transmitters around the world that the Argos system is monitoring, with almost 7,800 tracking wildlife.

The delivery of the GAZelle satellite was contracted to General Atomics by the United States Space Force's Space and Missile Systems Center under a Hosted Payload Solutions mission delivery order for the Argos Advanced Data Collection System, on behalf of the National Oceanic and Atmospheric Administration (NOAA). The Argos-4

instrument onboard spacecraft was provided by France's National Centre for Space Studies.

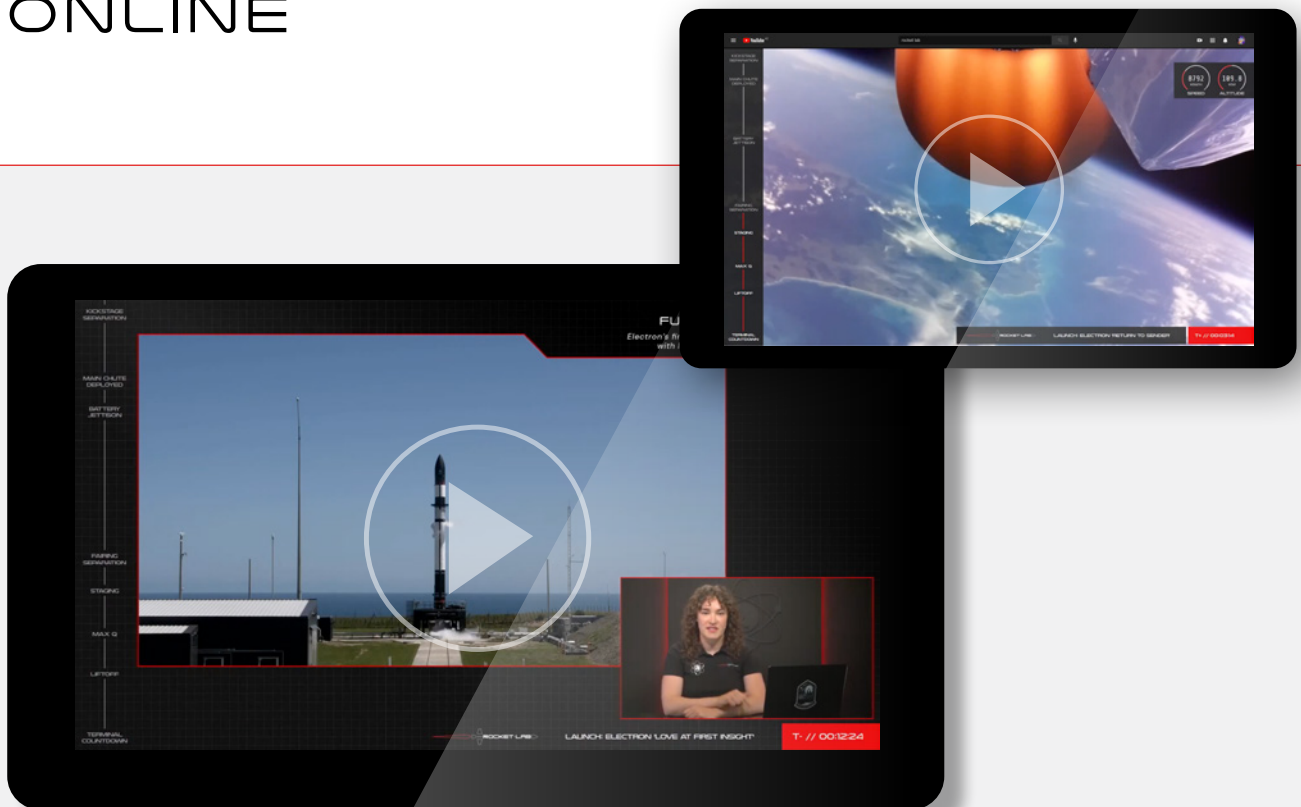
The GAZelle satellite will become part of the Argos constellation supported by the NOAA Cooperative Data and Rescue Services Program and is the only payload aboard Electron for this mission.

Rocket Lab will not attempt to recover Electron this mission.



GAZelle Satellite with Argos-4 Payload

VIEWING A LAUNCH ONLINE



LIVE STREAM LINKS

The livestream is viewable at:

rocketlabusa.com/live-stream

Webcast will be live approx. T-20 minutes

LAUNCH FOOTAGE & IMAGES

Images and footage of "It Argos Up From Here" launch will be available shortly after a successful mission at:

www.rocketlabusa.com/about-us/updates/link-to-rocket-lab-imagery-and-video

UPDATES

For information on launch day visit:

rocketlabusa.com/next-mission

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VIEWING A LAUNCH IN PERSON

Location

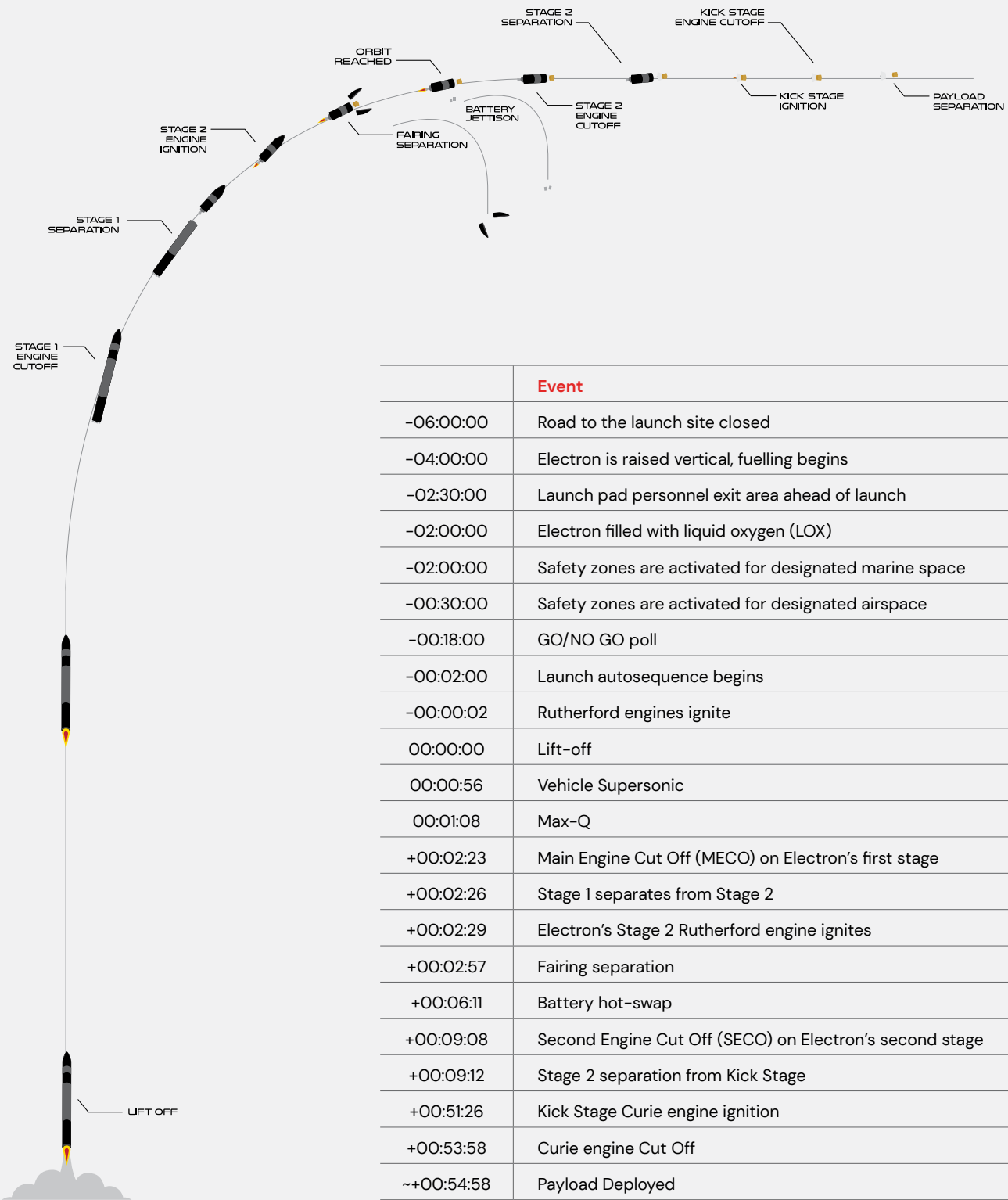
Wairoa District Council has allocated a rocket launch viewing area for the public near Nuhaka, accessible via Blucks Pit Road. Scrubs and postponements are likely during launch windows, so visitors to the Blucks Pit viewing site should anticipate multiple postponements, sometimes across several days.

More information visit

www.visitwairoa.co.nz/welcome-to-wairoa/space-coast-new-zealand



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

200kg / 440lbm To 500km SSO

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

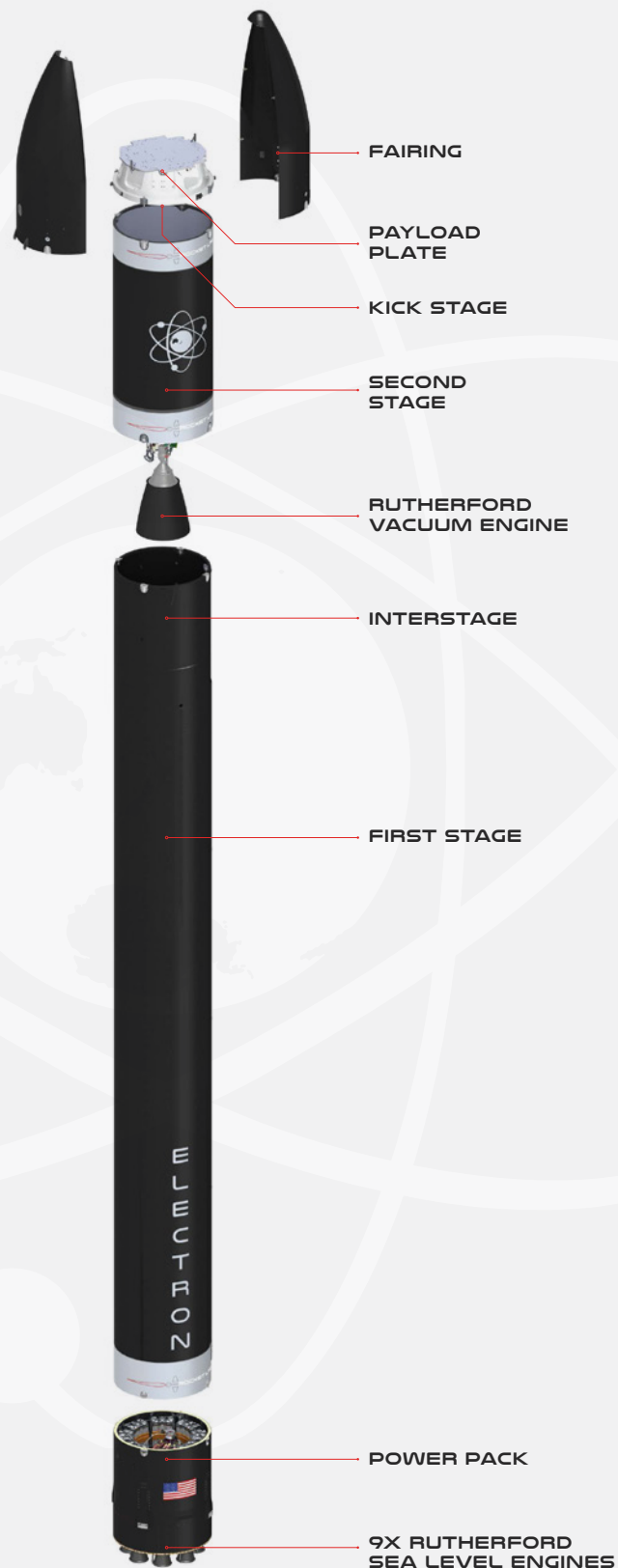
9x Rutherford Sea Level Engines

THRUST

5600 LBF Sea Level (Per Engine)

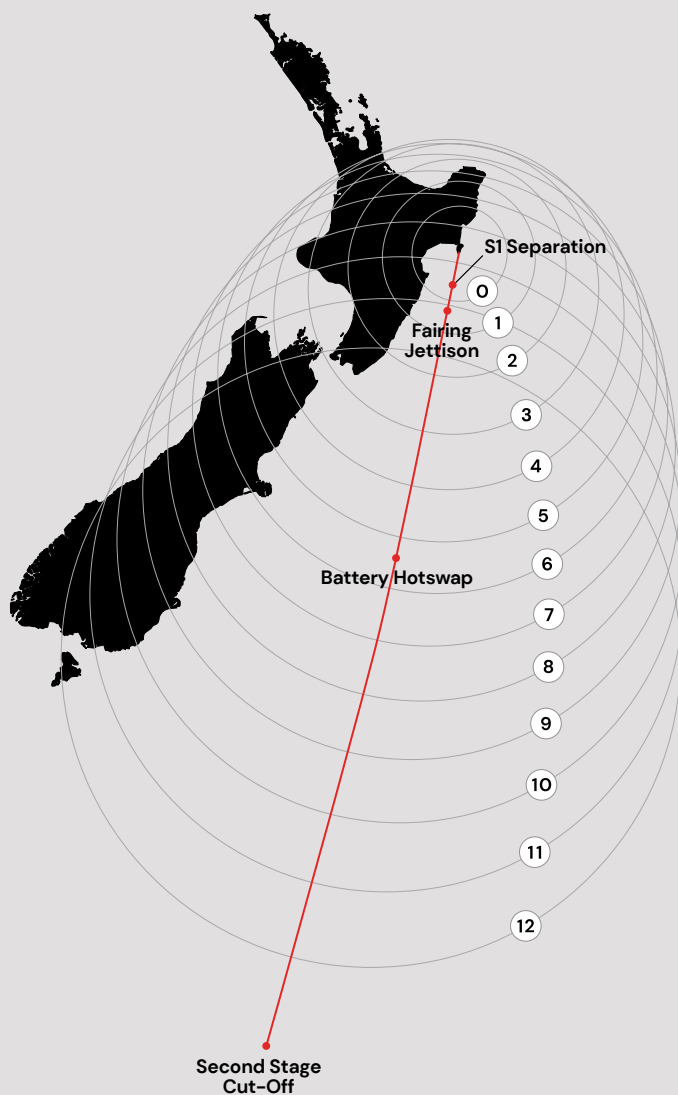
ISP

311 Sec



LAUNCH VISIBILITY MAP


WHEN AND WHERE TO SPOT THE LAUNCH




Note:
Numbers apply to the
centre of the circle.


Marker	Mission Time
1	T+ 01:00
2	T+ 01:30
3	T+ 02:00
4	T+ 02:30
5	T+ 03:00
6	T+ 03:30
7	T+ 04:00
8	T+ 04:30
9	T+ 05:00
10	T+ 05:30
11	T+ 06:00
12	T+ 06:30


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