



# THE OWL'S NIGHT CONTINUES

PRESS KIT | NET FEB 28 UTC

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



# LAUNCH INFORMATION



## LAUNCH SITE

Launch Complex 1-B  
Mahia, New Zealand



## LAUNCH WINDOW

A 14-day launch window opens  
no earlier than Feb 28 UTC



## DAILY LAUNCH OPPORTUNITY

Target Launch Time:

Time Zone	Window Open
UTC	20:35
NZT	09:35
ET	15:35
PT	12:35

There is a five-minute window for launch.  
It remains the same across all 14-days of  
the launch window.



## ORBIT

# 561km



## SATELLITES

# 1



## INCLINATION

# 97

Degrees



## CUSTOMER

# Synspective

Dedicated mission

# MISSION OVERVIEW

ABOUT 'THE OWL'S NIGHT CONTINUES'

Launching from Rocket Lab Launch Complex 1 on New Zealand's Mahia Peninsula, "The Owl's Night Continues" mission will be Rocket Lab's 24th Electron launch overall and first launch from pad B, the second pad at the company's private launch complex.



LAUNCH COMPLEX 1  
MAHIA, NEW ZEALAND



"The Owl's Night Continues" will deploy the StriX- $\beta$  satellite as part of Synspec's planned constellation of more than 30 synthetic aperture radar (SAR) satellites designed to collate data of metropolitan centers on a daily basis to support urban development planning, construction and infrastructure monitoring, and disaster response. Rocket Lab previously deployed Synspec's StriX- $\alpha$  satellite as part of "The Owl's Night Begins" mission in December 2020.

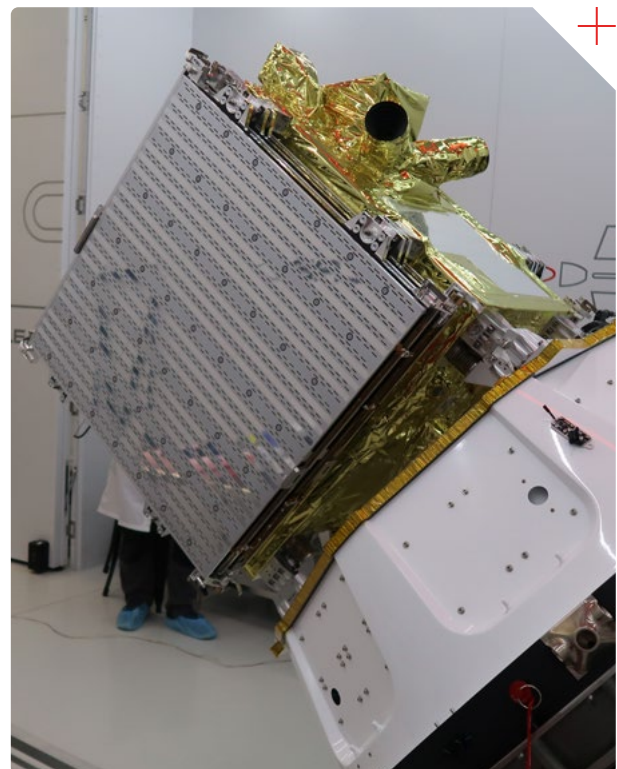
This mission is the first of three in a series of launches for Synspec's SAR constellation. Each launch will deploy one satellite, with the second scheduled later this year and the third in 2023.

"The Owl's Night Continues," Rocket Lab will perform an advanced mid-mission maneuver with its Kick Stage space tug to shield the StriX- $\beta$  satellite from the sun to reduce radiation exposure ahead of payload deployment. Rocket Lab performed the same maneuver in the 2020 launch.

"The Owl's Night Continues" launch will bring the total number of satellites launched by Rocket Lab to 110. Rocket Lab will not attempt to recover Electron for this mission.

## PAYLOADS ONBOARD ELECTRON:

### SYNSPECTIVE'S STRIX- $\beta$



# NEW PAD, MORE LAUNCH OPPORTUNITIES

LAUNCH PAD B MAKES DEBUT



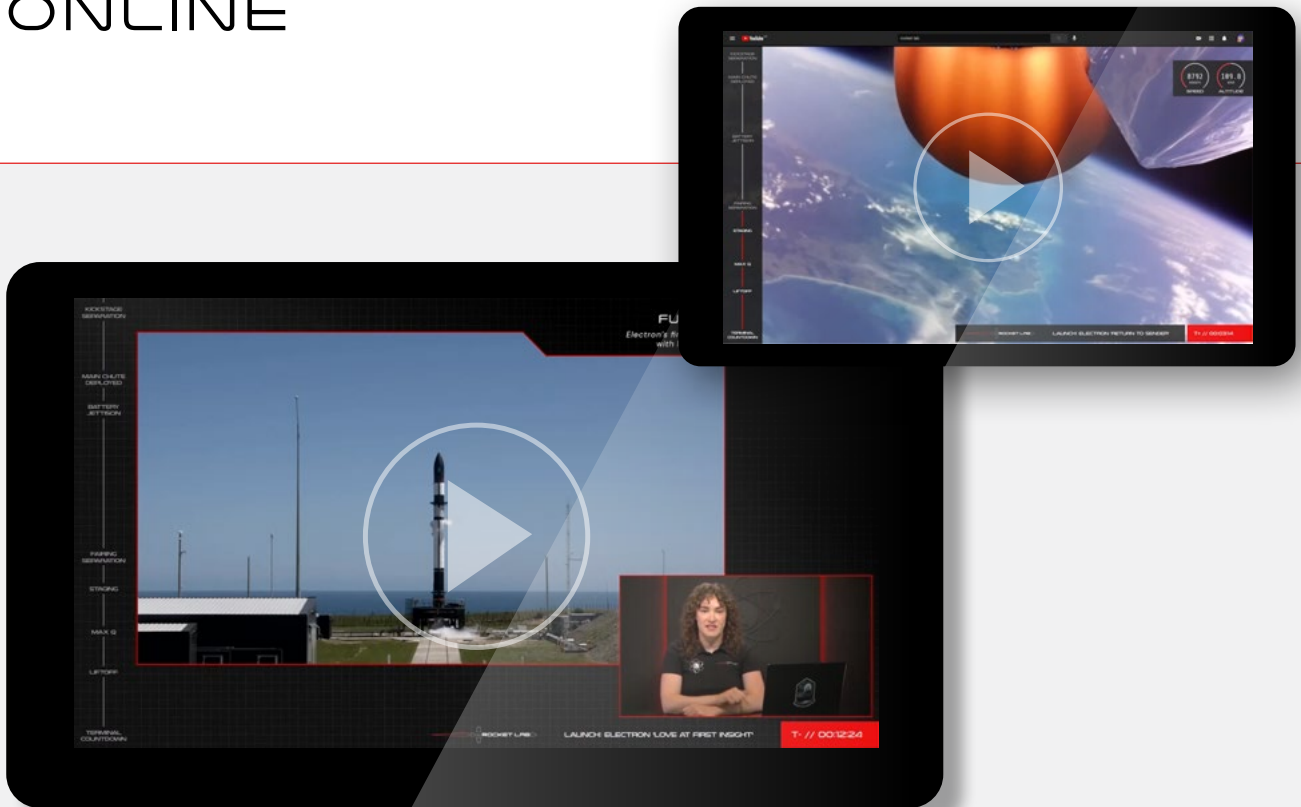
Pad B is the second pad at Rocket Lab's Launch Complex 1 and the company's third pad globally. The new pad is designed to support frequent and responsive launch capability by eliminating pad recycle time between missions.

All 23 Electron launches to date have been launched from Pad A at Launch Complex 1 and the "The Owl's Night Continues" mission will be the inaugural launch from Pad B.

The addition of Pad B increases Rocket Lab's responsive launch capabilities and supporting an increased launch cadence by eliminating the time it takes to recycle and prepare the current pad between missions, making it possible to launch multiple missions just days apart.

Initially opened in 2016, Launch Complex 1 is the world's first private orbital launch site and encompasses a launch pad, range control operations, and vehicle integration facilities equipped to process two Electron vehicles simultaneously. The site is also home to three 100K class cleanrooms for payload processing, each with dedicated customer rooms.

# VIEWING A LAUNCH ONLINE



## LIVE STREAM LINKS

The livestream is viewable at:

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

Webcast will be live approx. T-20 minutes

## LAUNCH FOOTAGE & IMAGES

Images and footage of the 'The Owl's Night Continues' launch will be available shortly after a successful mission at:

[www.rocketlabusa.com/about-us/updates/link-to-rocket-lab-imagery-and-video](https://www.rocketlabusa.com/about-us/updates/link-to-rocket-lab-imagery-and-video)

## UPDATES

For information on launch day visit:

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

## FOLLOW ROCKET LAB:

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# VIEWING A LAUNCH IN PERSON

### Location

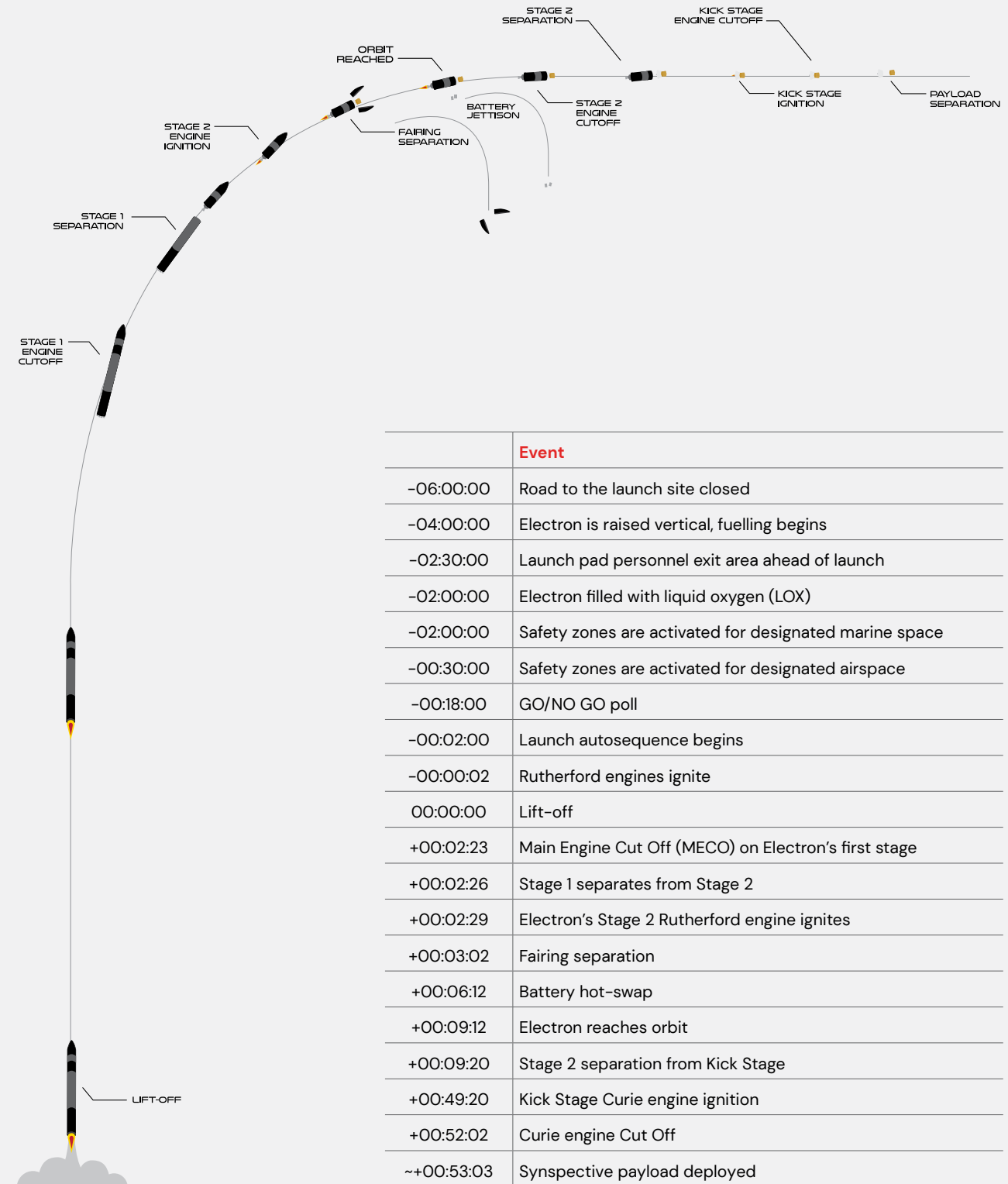
Wairoa District Council has allocated a rocket launch viewing area for the public near Nuhaka, accessible via Blucks Pit Road. Scrubs and postponements are likely during launch windows, so visitors to the Blucks Pit viewing site should anticipate multiple postponements, sometimes across several days.

### More information visit

[www.visitwairoa.co.nz/welcome-to-wairoa/space-coast-new-zealand](http://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

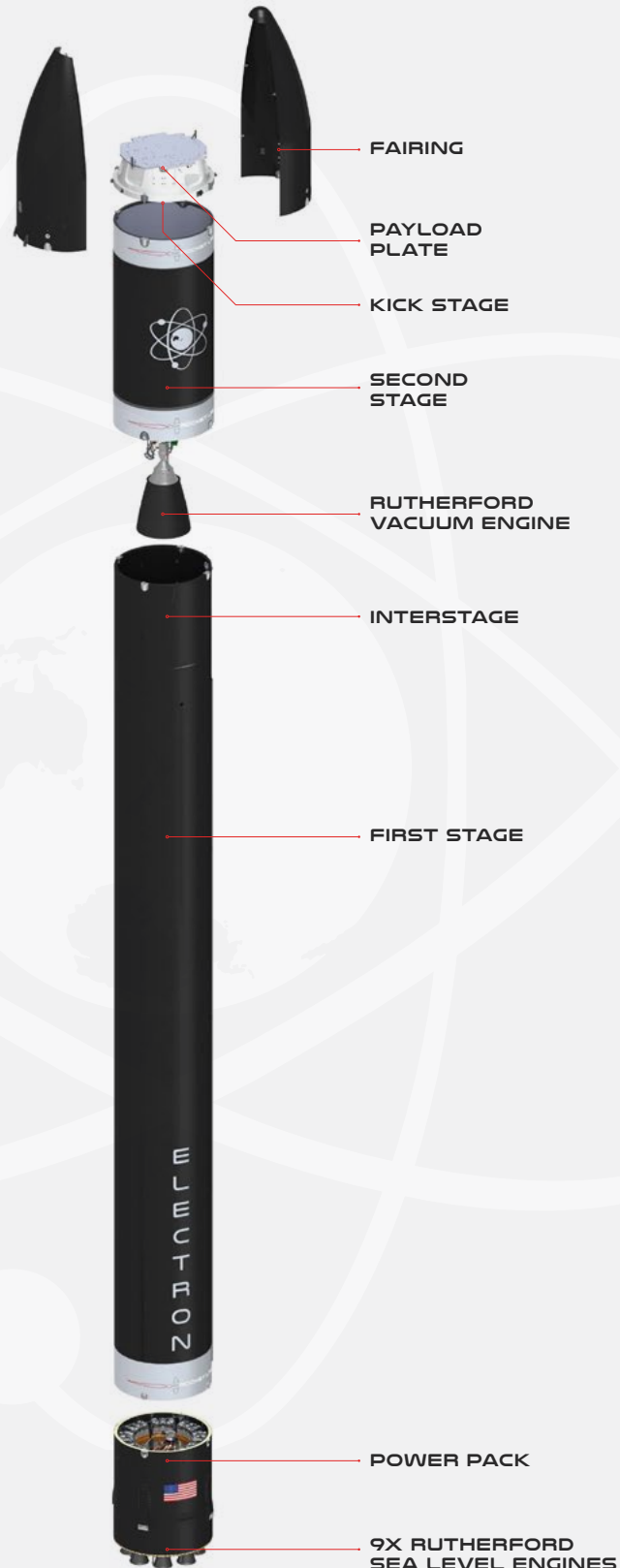
9x Rutherford Sea Level Engines

### THRUST

5600 LBF Sea Level (Per Engine)

### ISP

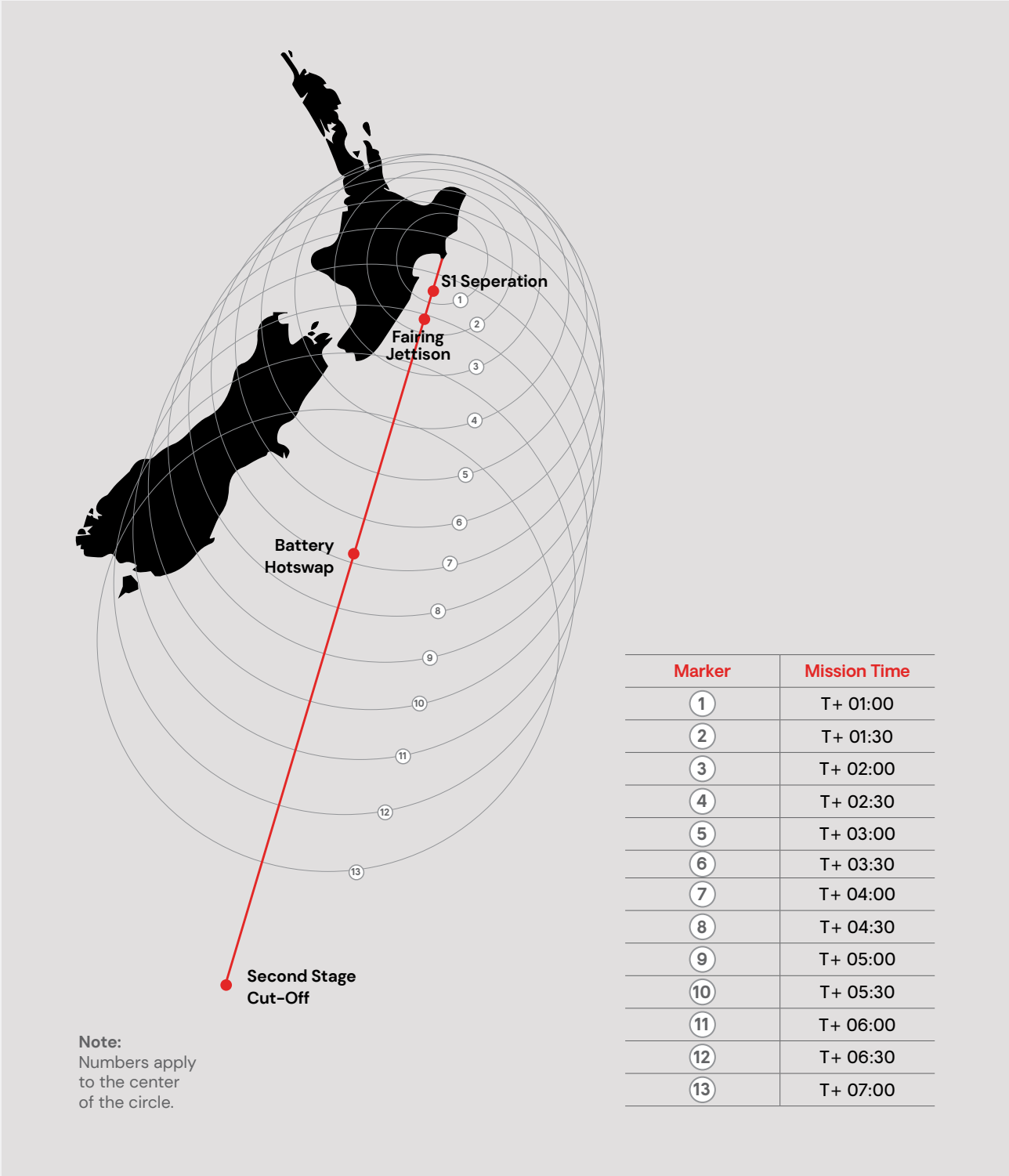
311 Sec







# LAUNCH VISIBILITY MAP

WHEN AND WHERE TO SPOT THE LAUNCH




## CONTACT US


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## CONNECT WITH US

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