



LAUNCH INFORMATION



20

M hia Peninsula,

19 45 1 1
06 45 08:15
01 45 00:15
2 45 03:15

Watch the live launch webcast:



Polar

01

OHB

MISSION OVERVIEW

ABOUT 'ANOTHER ONE LEAVES THE CRUST'

ROCKET LAB'S FIRST LAUNCH OF THE NEW YEAR IS A DEDICATED MISSION FOR OHB GROUP.



ELaNa-19 Ignition
16 December 2018

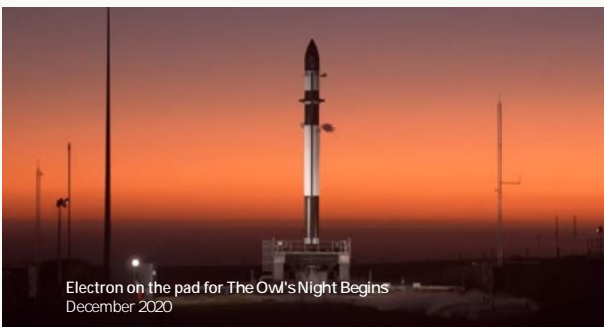
The mission is Rocket Lab's 18th Electron launch and will bring the total number of satellites launched by Rocket Lab to 97.

Encapsulated inside Electron's fairing is a single communication microsatellite that will enable specific frequencies to support future services from orbit. The launch was procured for OHB Group through OHB Cosmos International Launch Service GmbH, the launch service division of OHB Group. OHB Cosmos is responsible for launching the spacecraft built by the Group's satellite manufacturers based in Germany, Sweden, and Czech Republic.

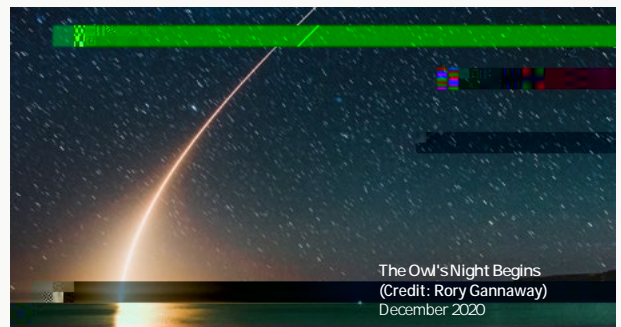
The mission will launch from Rocket Lab Launch Complex 1 on New Zealand's M'huia Peninsula to an initial elliptical orbit, then Electron's Kick Stage will perform a series of burns with its re-ignitable Curie engine to raise apogee and act as a space tug to deliver the OHB Cosmos' payload to its precise orbital destination.

Following payload deployment, the Kick Stage will perform a de-orbit burn to lower its perigee where it will experience greater atmospheric drag, enabling it to re-enter and burn up faster to avoid becoming space junk.

Rocket Lab will not be attempting to recover Electron for this mission.



Electron on the pad for The Owl's Night Begins
December 2020



The Owl's Night Begins
(Credit: Rory Gannaway)
December 2020

VIEWING A LAUNCH ONLINE



LIVE STREAM

The best way to view a launch is via Rocket Lab's live video webcast. This offers the best views of launch and includes helpful commentary about the launch process. A livestream will be made available approximately 15-20 minutes prior to a launch attempt. Rocket Lab will post links to the webcast when live via Facebook and Twitter.

LIVE STREAM LINKS

The livestream is viewable at:

Also available on:

[youtube.com/RocketLabNZ](https://www.youtube.com/RocketLabNZ)

LAUNCH FOOTAGE & IMAGES

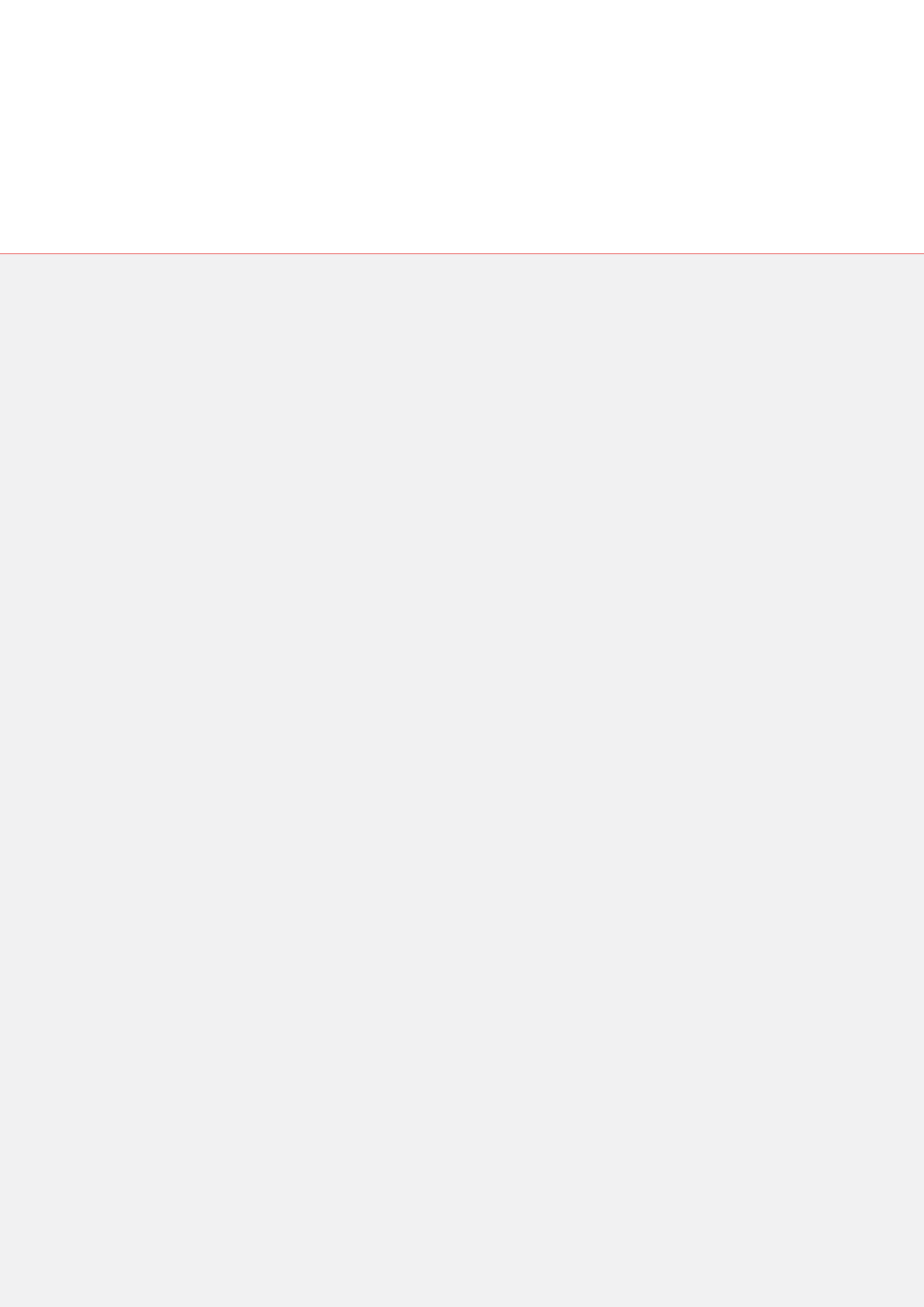
Images and footage of the 'Another One Leaves The Crust' launch will be available shortly after a successful mission at:

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

UPDATES

For information on launch day visit:

rocketlabusa.com/next-mission



Hrs:Min:Sec From Lift-off	Event
	Road to the launch site closed
	Electron is raised vertical, fueling begins
	Launch pad personnel exit area ahead of launch
	Electron filled with liquid oxygen (LOX)
	Safety zones are activated for designated marine space
	Safety zones are activated for designated airspace
	GO/NO GO poll
	Launch auto sequence begins
	Rutherford engines ignite
00:00:00	Lift-off
	Main Engine Cut Off (MECO) on Electron's first stage
+00:02:33	Stage 1 separation
	Electron's Stage 2 Rutherford engine ignites
	Fairing separation

ELECTRON LAUNCH VEHICLE

LENGTH

DIAMETER (MAX)

1.2m

STAGES

2+ Kick Stage

VEHICLE MASS (LIFT-OFF)

13,000kg

MATERIAL/STRUCTURE

Carbon Fiber Composite/Monocoque

PROPELLANT

LOX/Kerosene

NOMINAL PAYLOAD

200kg / 440lbm To 500km SSO

FAIRING DIAMETER

1.2m

FAIRING HEIGHT

2.5m

FAIRING SEP SYSTEM

Pneumatic Unlocking, Springs

PROPULSION

1x Rutherford Vacuum Engine

THRUST

5800 LBF Vacuum

ISP

SEPARATION SYSTEM

Pneumatic Pusher

PROPULSION

9x Rutherford Sea Level Engines

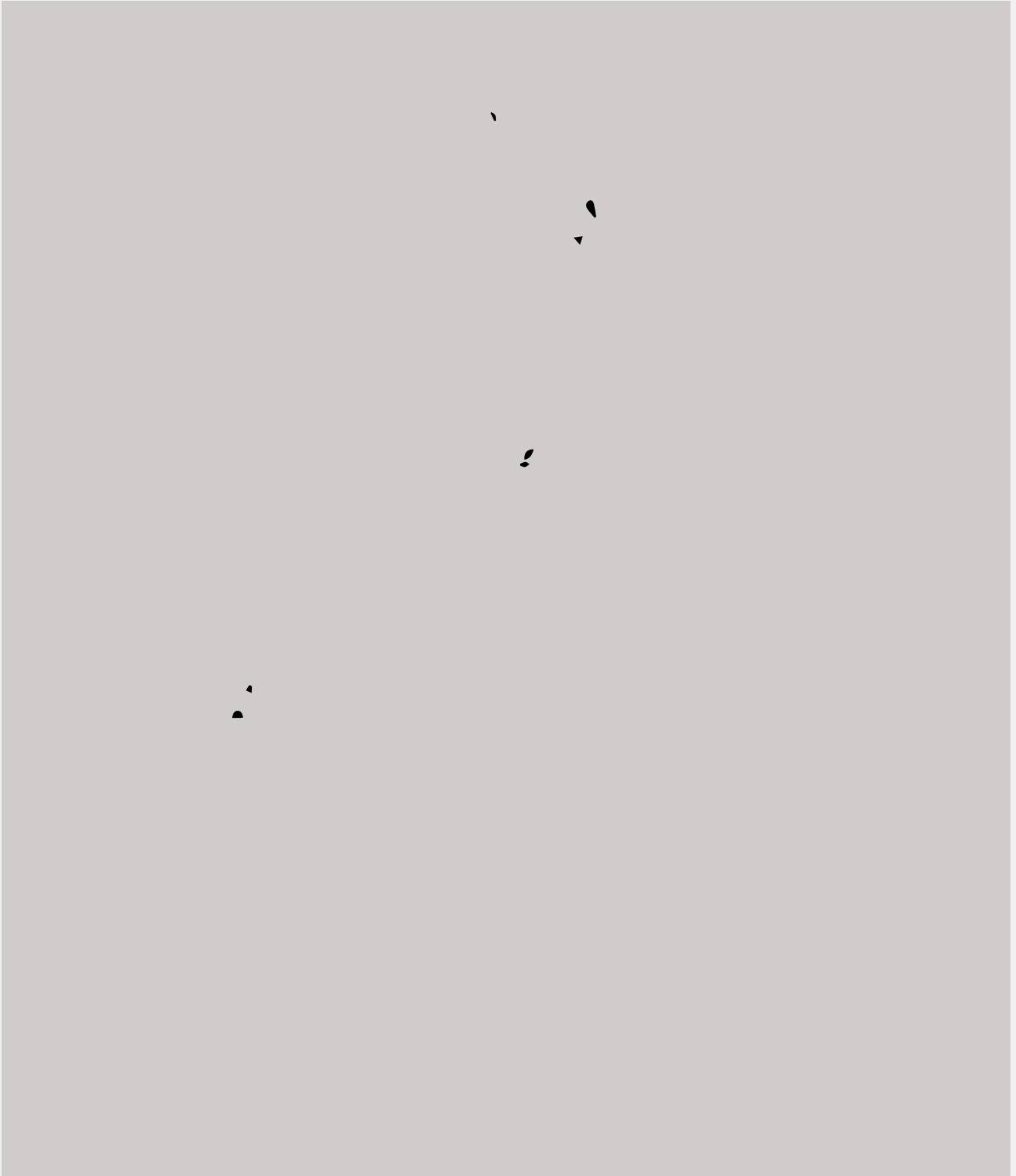
THRUST

5600 LBF Sea Level (Per Engine)


ISP




LAUNCH VISIBILITY MAP





CONTACT US


 [rocketlabusa.com](https://www.rocketlabusa.com)

 media@rocketlabusa.com

CONNECT WITH US

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

 [RocketLabUSA](https://www.instagram.com/RocketLabUSA)

 [facebook.com/rocketlabusa](https://www.facebook.com/rocketlabusa)

