



IT'S A LITTLE CHILE UP HERE

PRESS KIT | NET 29 JULY 2021

LAUNCH INFORMATION



LAUNCH WINDOW

12-day launch window opening from 29 July 2021



DAILY LAUNCH OPPORTUNITY

The launch timing for this mission is the same for each day of the launch window.

Time Zone	Window Open	Window Close
NZT	18:00	20:00
UTC	06:00	08:00
EDT	02:00	04:00
PDT	23:00	01:00

The launch window extends for 12 days.



LAUNCH SITE Launch Complex 1, Mahia, New Zealand



LIVE STREAM

Watch the live launch webcast: rocketlabusa.com/live-stream

600km



SATELLITES

NCLINATION



Degrees

Dedicated mission for U.S. Space Force

MISSION OVERVIEW

ABOUT 'IT'S A LITTLE CHILE UP HERE'

ELECTRON WILL LAUNCH A RESEARCH AND DEVELOPMENT SATELLITE TO LOW EARTH ORBIT FROM LAUNCH COMPLEX 1 IN NEW ZEALAND FOR THE UNITED STATES SPACE FORCE



Electron will deploy an Air Force Research Laboratorysponsored demonstration satellite called Monolith. The satellite will explore and demonstrate the use of a deployable sensor, where the sensor's mass is a substantial fraction of the total mass of the spacecraft, changing the spacecraft's dynamic properties and testing ability to maintain spacecraft attitude control. Analysis from the use of a deployable sensor aims to enable the use of smaller satellite buses when building future deployable sensors such as weather satellites, thereby reducing the cost, complexity, and development timelines. The satellite will also provide a platform to test future space protection capabilities.

The mission was procured by the Department of Defense (DoD) Space Test Program (STP) and the Rocket Systems Launch Program (RSLP), both based at Kirtland Air Force Base, New Mexico.; in partnership with the Defense Innovation Unit (DIU) as part of the Rapid Agile Launch Initiative (RALI). The mission is being managed by the Launch Enterprise's Small Launch and Targets Division, which is part of the USSF's launch organization of choice.

The mission has been named 'It's a Little Chile Up Here' in a nod to the beloved green chile of New Mexico where the Space Test Program is based.

The mission follows on from a previous Rocket Lab launch under the same agreement, the STP-27RD mission launched by Electron in May 2019. That mission, named "That's a Funny Looking Cactus' saw Electron deploy three research and development satellites for the Space Test Program.

Electron's first stage will not be recovered on this mission.













LIVE STREAM LINKS

The livestream is viewable at:

rocketlabusa.com/live-stream

TRALL

Webcast will be live approx. T-20 minutes

LAUNCH FOOTAGE & IMAGES

Images and footage of the 'It's a Little Chile Up Here' launch will be available shortly after a successful mission at: www.rocketlabusa.com/about-us/ updates/link-to-rocket-lab-imageryand-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-towairoa/space-coast-new-zealand



TIMELINE OF LAUNCH EVENTS



ELECTRON LAUNCH VEHICLE

OVERALL LENGTH FAIRING 18m **DIAMETER (MAX)** PAYLOAD 1.2m PLATE **STAGES** KICK STAGE 2 + Kick Stage VEHICLE MASS (LIFT-OFF) 13,000kg SECOND STAGE MATERIAL/STRUCTURE Carbon Fiber Composite/Monocoque PROPELLANT RUTHERFORD VACUUM ENGINE LOX/Kerosene PAYLOAD INTERSTAGE NOMINAL PAYLOAD 200kg / 440lbm To 500km SSO **FAIRING DIAMETER** 1.2m **FAIRING HEIGHT** 2.5m FAIRING SEP SYSTEM FIRST STAGE Pneumatic Unlocking, Springs STAGE 2 PROPULSION 1x Rutherford Vacuum Engine THRUST 5800 LBF Vacuum ISP 343 Sec Е E INTERSTAGE C SEPARATION SYSTEM **Pneumatic Pusher** RO N STAGE 1 PROPULSION 9x Rutherford Sea Level Engines POWER PACK THRUST 5600 LBF Sea Level (Per Engine) ISP 9X RUTHERFORD 311 Sec SEA LEVEL ENGINES

LAUNCH VISIBILITY MAP

WHEN AND WHERE TO SPOT THE LAUNCH



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