THE SEA GOD SEES

PRESS KIT | NET MAY 17 2025

Rocket Lab USA, Inc.
rocketlabusa.com

ROCKETLAB

LAUNCH INFORMATION

MISSION

Rocket Lab will launch a dedicated mission for Institute for Q-shu Pioneers of Space, Inc. (iQPS), a Japan-based Earth imaging company.

LAUNCH SITE

Launch Complex 1 – Pad A
Mahia, New Zealand.

LAUNCH WINDOW

The launch window opens from May 17, 2025, and is open for two weeks. Back up opportunities are available throughout May should the launch date change for any reason.

Time Zone	Window Open
NZT	8:15 - 9:15 PM
UTC	08:15 - 09:15
EST	4:15 - 5:15 AM
PST	1:15 - 2:15 AM
MDT	2:15 - 3:15 AM

ORBIT

575 km
Circular Earth orbit

SATELLITES

1
QPS-SAR-10

INCLINATION

42
Degrees

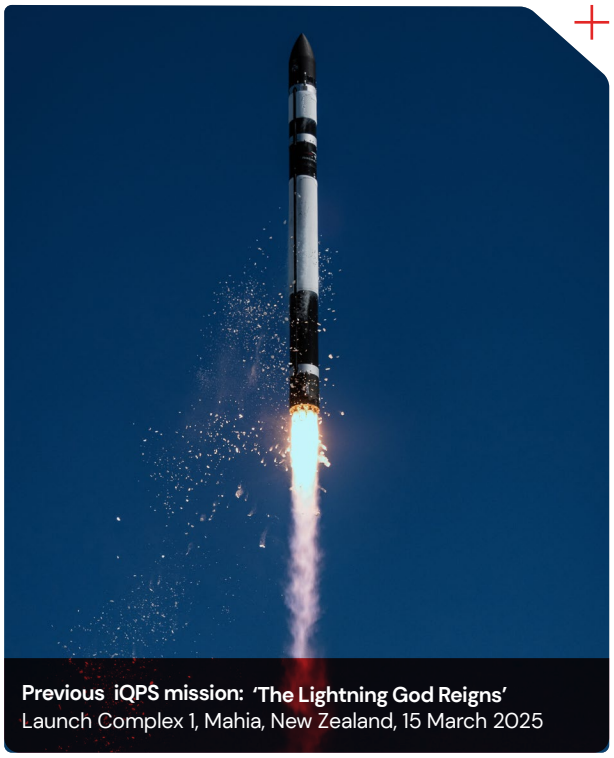
CUSTOMER

iQPS

MISSION OVERVIEW

About 'The Sea God Sees'

'The Sea God Sees' is scheduled to lift-off from Rocket Lab Launch Complex 1, Pad A for Japan-based Earth imaging company, Institute for Q-shu Pioneers of Space, Inc. (iQPS).



Previous iQPS mission: 'The Lightning God Reigns'
Launch Complex 1, Mahia, New Zealand, 15 March 2025

The mission will see Electron deploy a single QPS-SAR synthetic aperture radar (SAR) satellite, named WADATSUMI-I, to a 575 km orbit. Once in orbit, WADATSUMI-I will be able to utilize its advanced high-resolution Earth imaging capabilities to conduct location-specific monitoring at 10-minute intervals.

Previous iQPS mission: 'The Lightning God Reigns'
Ready to launch and deploy QPS-SAR-9 (SUSANOO-I)

This mission will be the third overall Electron launch for iQPS and the second of eight missions contracted to launch throughout 2025 and 2026. 'The Sea God Sees' is scheduled to launch just two months after the successful deployment of the previous mission in the series, called 'The Lightning God Reigns', which launched on 15 March, 2025. This mission will be supported by a Rocket Lab manufactured Motorized Lightband; separation systems for a satellite to attach to and deploy from Electron once in space.

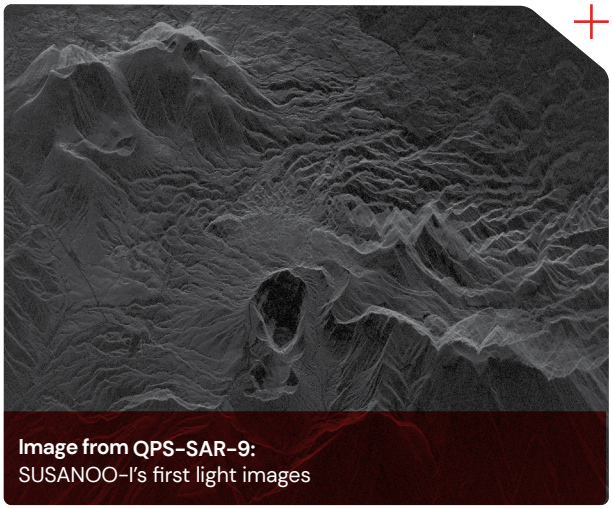


Image from QPS-SAR-9:
SUSANOO-I's first light images

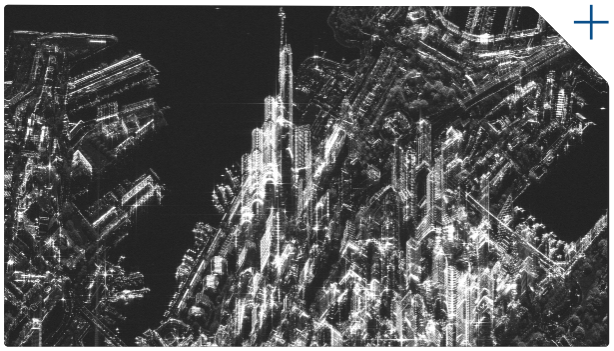
iQPS OVERVIEW

About iQPS

Institute for Q-shu Pioneers of Space, Inc. (iQPS) is a pioneering space startup founded in 2005 by two Emeritus Professors from Kyushu University and a rocket developer with the mission of establishing a space industry in Japan's Kyushu region.

Building on more than 20 years of small satellite development expertise at Kyushu University, iQPS now brings together a dynamic team of young engineers, industry leaders, and visionary professors emeritus. The company's growth is further strengthened by the support of over 25 partner companies throughout Japan, primarily based in northern Kyushu.

Sydney Harbour Bridge
Images captured from QPS-SAR-5



Sydney Central
Images captured from QPS-SAR-5

QPS-SAR is an advanced small SAR satellite developed by iQPS. The company has engineered a patented large deployable antenna that is both lightweight and highly compact, enabling the satellite to emit strong radio waves. This breakthrough led to the successful development of QPS-SAR, a high-resolution small SAR satellite that is just 1/20th the weight and 1/100th the cost of traditional SAR satellites.

Sydney City
Images captured from QPS-SAR-5

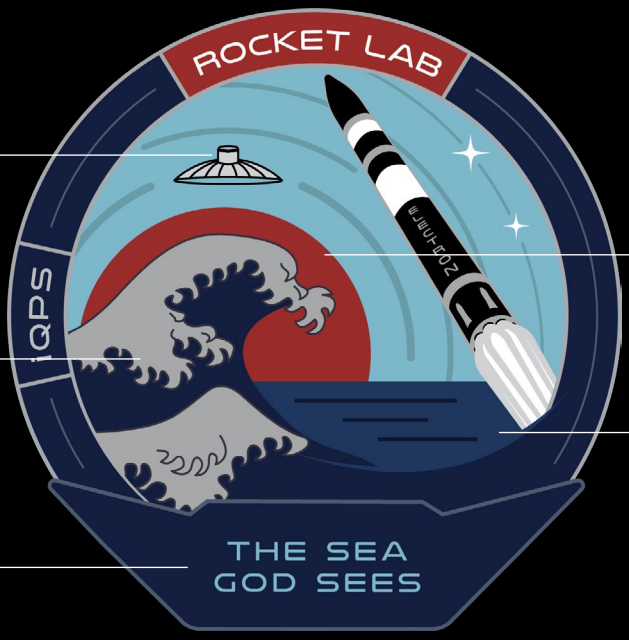
To date, nine QPS-SAR satellites have been launched and iQPS aims to establish a constellation of 36 satellites. This will enable the delivery of a "Near-Real-Time Data Provisioning Service," allowing for the observation of specific regions worldwide at an average interval of 10 minutes. This will make it possible to collect continuous images as data, and to accumulate data not only on "Stationary Objects" such as land and buildings, but also on "Moving Objects" such as vehicles, ships, and cattle and livestock.

The data gathered by QPS-SAR constellation has the potential to revolutionize industries and reshape the future. By leveraging insights from moving object data, iQPS can unlock new economic value, enhance urban safety and security, and provide predictive analytics for agriculture, national economies, and regional markets when integrated with weather, market, and economic data. The possibilities are limitless. QPS-SAR also enables swift situational awareness in emergencies. With multiple satellites in orbit, capable of penetrating clouds and plumes, it provides 24/7 monitoring, ensuring rapid assessment and effective countermeasure planning—regardless of weather conditions.

MISSION PATCH ANATOMY

'The Sea God Sees'

'The Sea God Sees' mission name draws inspiration from the Japanese sea god Wadatsumi. The 'I' in the satellite name WADATSUMI-I represents iQPS's inaugural venture into a new orbital path. WADATSUMI-I will soon join its satellite counterparts in space, including SUSANOO-I named after the lightning god; TSUKUYOMI-I named for the moon god; and AMATERU-I and AMATERU-II for the sun god.



QPS-SAR-10

The name of the iQPS satellite.

Waves, symbolizing the Sea god, Wadatsumi, after whom the satellite is named.

Mission name is based on the the Sea god.

The red sun, an emblem as seen on the Japanese flag, signifies the home country of iQPS.

The sea refers to the satellite's mission of monitoring a maritime region known for its sea ice.

Mission merchandise can be found on the Rocket Lab Store after launch day.

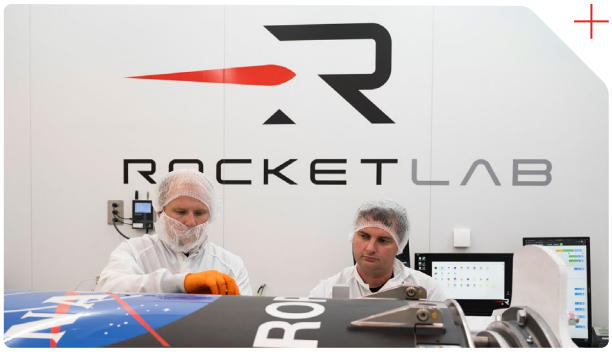
rocketlabusa.com/shop

LAUNCH SITE OVERVIEW

Rocket Lab Launch Complex-1
Mahia, New Zealand

> ‘The Sea God Sees’ will lift off from Launch Complex 1 on New Zealand’s Mahia Peninsula.

An FAA-licensed spaceport, Launch Complex 1 can provide up to 120 launch opportunities every year. From the site it is possible to reach orbital inclinations from sun-synchronous through to 30 degrees, enabling a wide spectrum of inclinations to service the majority of the satellite industry’s missions to low Earth orbit.



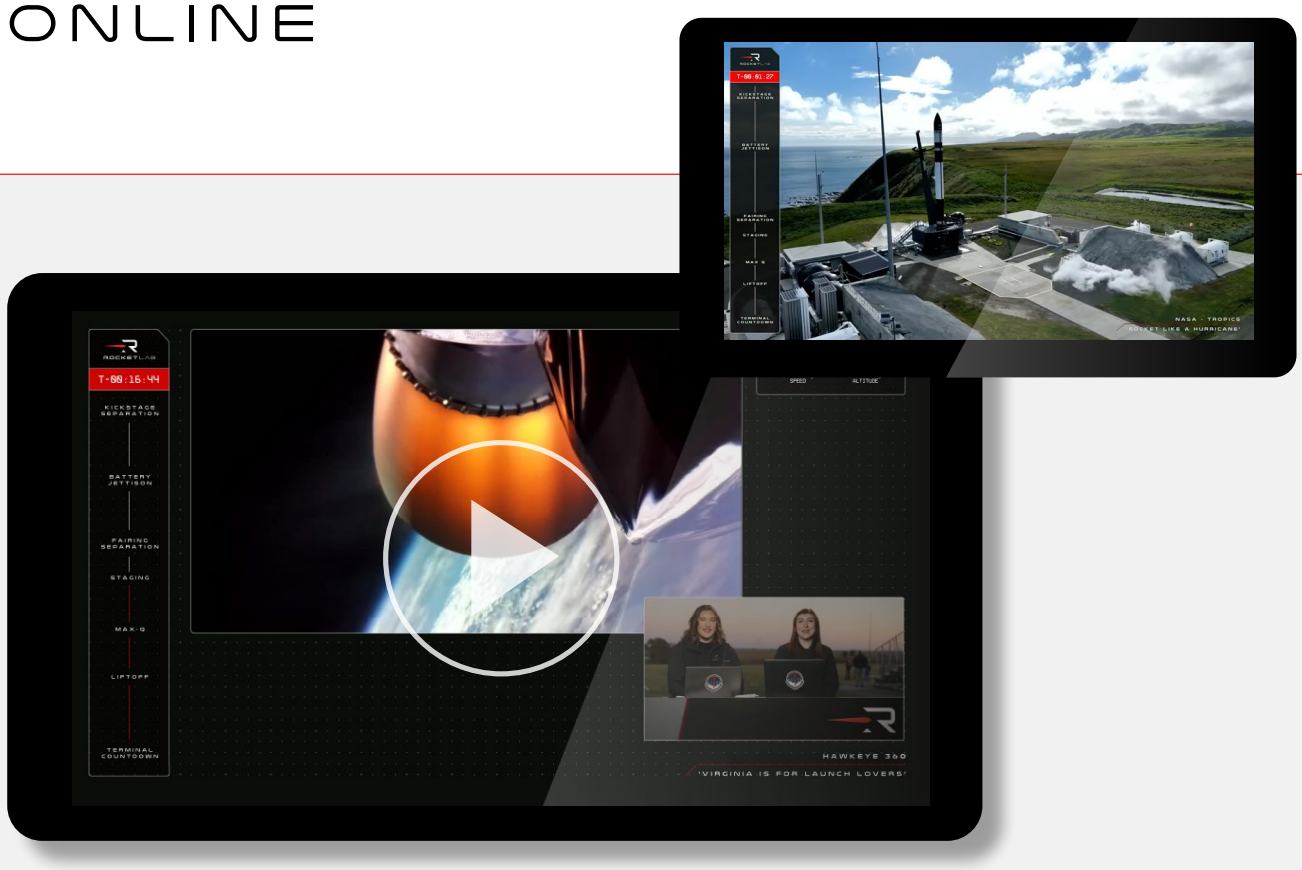
Located within Launch Complex 1 are Rocket Lab’s private range control facilities, two 100K satellite cleanrooms, a launch vehicle assembly facility which can process multiple Electrons at once, and administrative offices.

Operating a private orbital launch site alongside its own range and mission control centres allows Rocket Lab to reduce the overhead costs per mission, resulting in a cost-effective launch service for satellite operators.

In addition to Launch Complex 1, Rocket Lab operates an additional launch site, Launch Complex 2, at the Mid-Atlantic Regional Spaceport within NASA’s Wallops Flight Facility on Virginia’s Eastern Shore. Launch Complex 2 can support up to 12 missions per year.

By operating two launch complexes in two hemispheres, Rocket Lab provides customers with flexible, responsive launch opportunities.

VIEWING A LAUNCH ONLINE



LIVE STREAM

The live stream is viewable at:

rocketlabusa.com/live-stream

LAUNCH FOOTAGE & IMAGES

Images and footage of 'The Sea God Sees' launch will be available shortly after a successful mission at:

www.flickr.com/photos/rocketlab

UPDATES

For information on launch day visit:

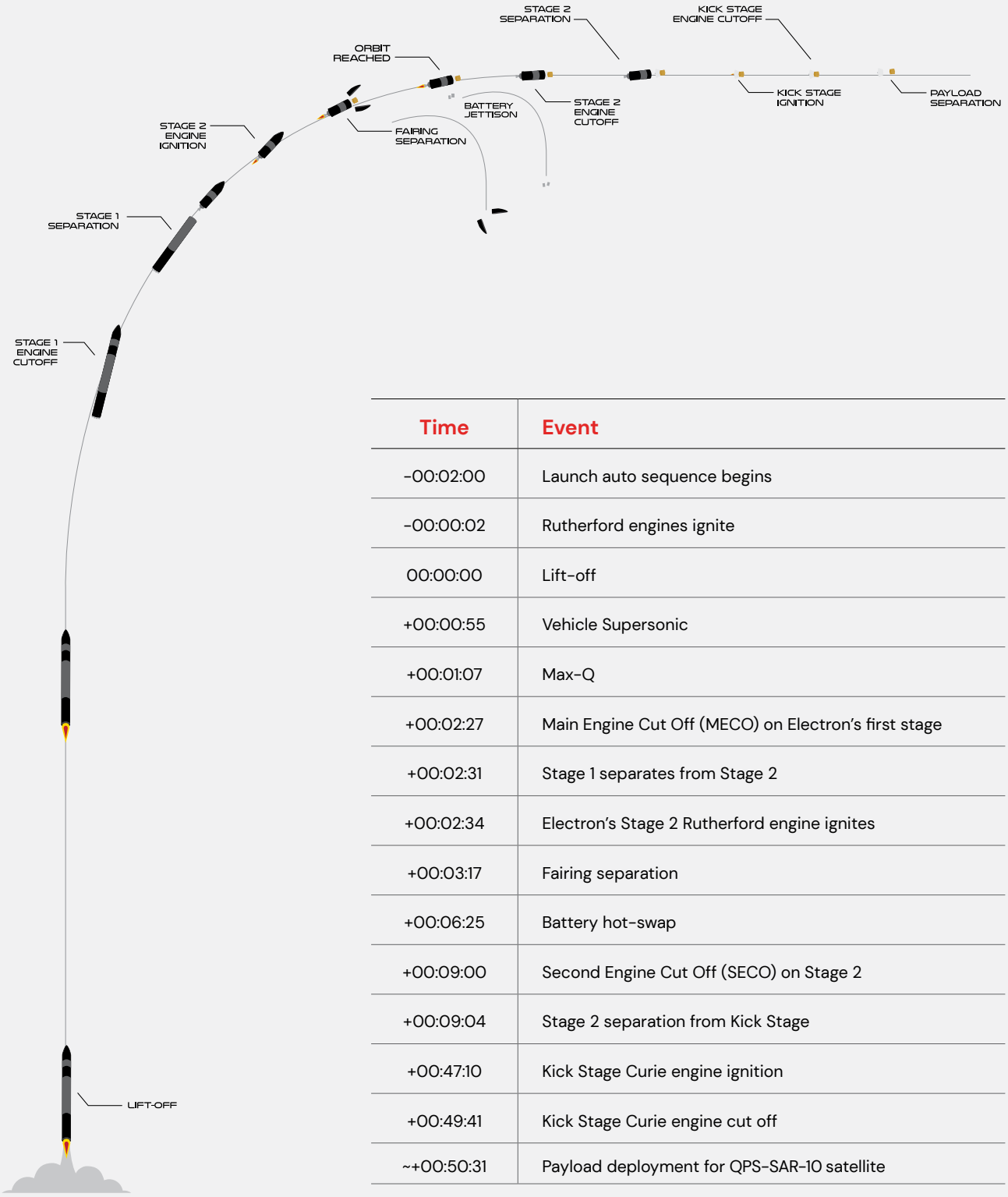
rocketlabusa.com/next-mission

FOLLOW ROCKET LAB:

@RocketLab

facebook.com/RocketLabUSA

TIMELINE OF LAUNCH EVENTS



Time	Event
-00:02:00	Launch auto sequence begins
-00:00:02	Rutherford engines ignite
00:00:00	Lift-off
+00:00:55	Vehicle Supersonic
+00:01:07	Max-Q
+00:02:27	Main Engine Cut Off (MECO) on Electron's first stage
+00:02:31	Stage 1 separates from Stage 2
+00:02:34	Electron's Stage 2 Rutherford engine ignites
+00:03:17	Fairing separation
+00:06:25	Battery hot-swap
+00:09:00	Second Engine Cut Off (SECO) on Stage 2
+00:09:04	Stage 2 separation from Kick Stage
+00:47:10	Kick Stage Curie engine ignition
+00:49:41	Kick Stage Curie engine cut off
~+00:50:31	Payload deployment for QPS-SAR-10 satellite

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

CONTACT US

rocketlabusa.com
media@rocketlabusa.com

CONNECT WITH US

@rocketlab
RocketLabUSA
facebook.com/rocketlabusa

ROCKETLAB