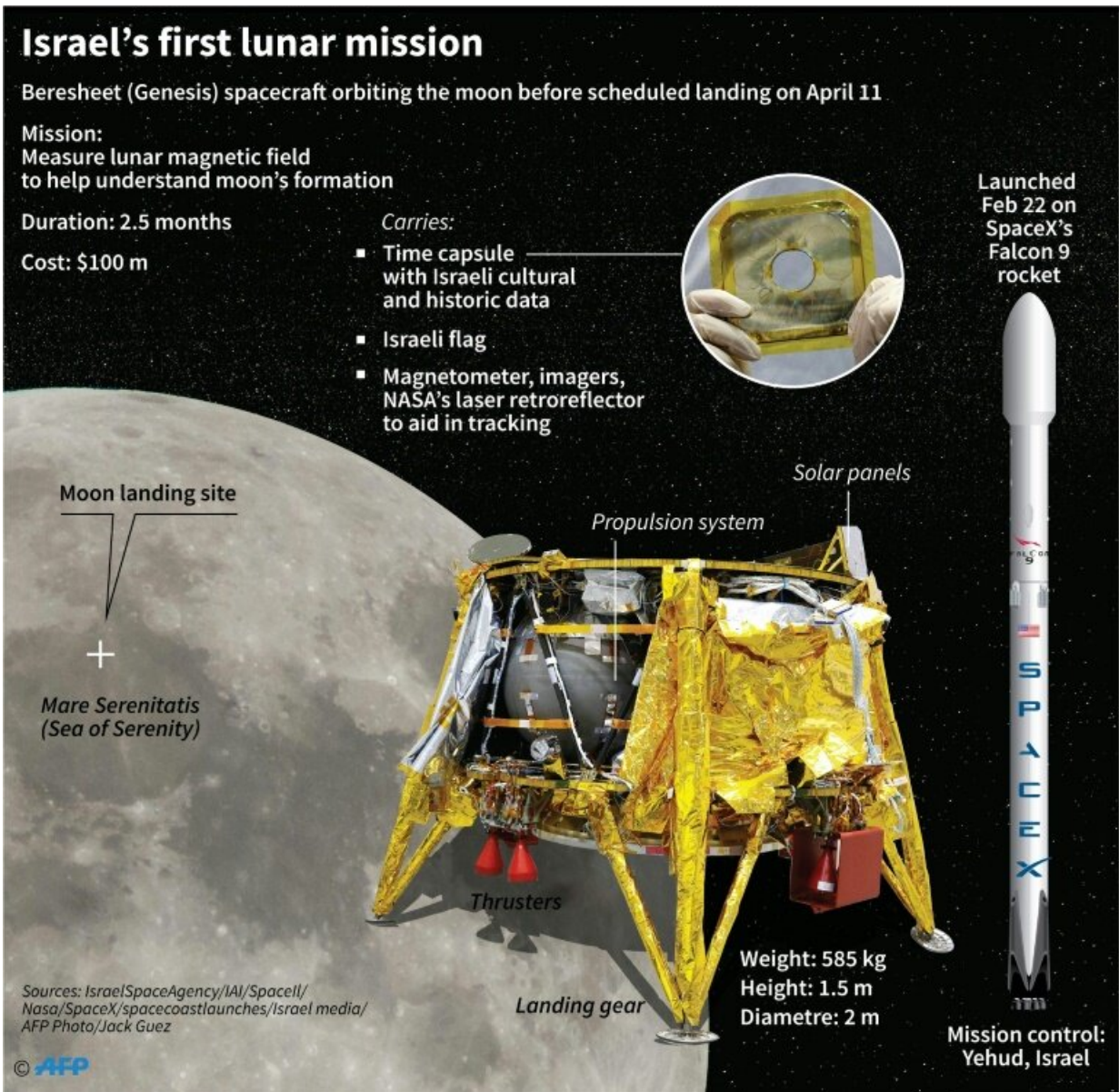


Israeli spacecraft crashes during moon landing: mission control (Update)

April 11 2019



Israel's first lunar mission

Beresheet (Genesis) spacecraft orbiting the moon before scheduled landing on April 11

Mission:
Measure lunar magnetic field to help understand moon's formation

Duration: 2.5 months

Cost: \$100 m

Carries:

- Time capsule with Israeli cultural and historic data
- Israeli flag
- Magnetometer, imagers, NASA's laser retroreflector to aid in tracking

Launched Feb 22 on SpaceX's Falcon 9 rocket

Moon landing site
+
Mare Serenitatis (Sea of Serenity)

Solar panels
Propulsion system
Thrusters
Landing gear

Weight: 585 kg
Height: 1.5 m
Diameter: 2 m

Mission control:
Yehud, Israel

Sources: IsraelSpaceAgency/IAI/SpaceIL/
Nasa/SpaceX/spacecoastlaunches/Israel media/
AFP Photo/Jack Guez

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Factfile on Israel's first moon mission ahead of its planned lunar landing on Thursday.

Israel's attempt at a moon landing failed at the last minute on Thursday when the craft suffered an engine failure as it prepared to land and apparently crashed onto the lunar surface.

"We didn't make it, but we definitely tried," project originator and major backer Morris Kahn said in a live videocast from mission control near Tel Aviv.

"I think that the achievement of getting to where we got is really tremendous, I think we can be proud," he said.

During the broadcast, control staff could be heard saying that engines meant to slow the craft's descent and allow a soft landing had failed and contact with it had been lost.

"We are on the moon but not in the way we wanted," one unidentified staffer said.

"We are the seventh country to orbit the moon and the fourth to reach the moon's surface," said another.

Only Russia, the United States and China have made the 384,000-kilometre (239,000-mile) journey and landed safely on the Moon.

"If at first you don't succeed, you try again," said Israeli Prime Minister Benjamin Netanyahu from the control room, where he had been watching along with US Ambassador to Israel David Friedman.

"We reached the moon but we'd like to land more comfortably," he added. "That will be for the next attempt."

The 585-kilogramme (1,290-pound) unmanned spacecraft named Beresheet, which means "Genesis" in Hebrew, resembles a tall, oddly shaped table with round fuel tanks under the top.

Israeli NGO SpaceIL and state-owned Israel Aerospace Industries (IAI), the project's two main partners, have described it as the "world's first spacecraft built in a non-governmental mission".

Khan, a philanthropist and chairman of SpaceIL, put up \$40 million of the project's \$100 million budget.

Other partners who joined later are from "the private sector, government and academia," according to the IAI website.

Just before the landing attempt Netanyahu said that he was thinking about initiating a national space project.

"I am seriously considering investing in a space programme," he said in the webcast.

"It has national implications for Israel and implications for humanity."

The country's president, Reuven Rivlin, viewed the broadcast with 80 middle school space buffs at his official Jerusalem residence, his office said in a statement.

"We are full of admiration for the wonderful people who brought the spacecraft to the moon," he said after the crash. "True, not as we had hoped, but we will succeed in the end. This is a great achievement that we have not yet completed."

Although the journey is 384,000 kilometres, Beresheet will have travelled a total of 6.5 million kilometres due to a series of orbits.

It was launched from Cape Canaveral in Florida on February 22 with a Falcon 9 rocket from Elon Musk's private US-based SpaceX company.

Its speed has reached 10 kilometres per second, (36,000 kilometres per hour).

The one-way trip was to have included an attempt to measure the lunar magnetic field, which would have helped understanding of the moon's formation.

Google prize

The project began as part of the Google Lunar XPrize, which in 2010 offered \$30 million in awards to encourage scientists and entrepreneurs to come up with relatively low-cost moon missions.

Although the Google prize expired in March without a winner, Israel's team pledged to push forward.

The Israeli mission came amid renewed global interest in the moon, 50 years after American astronauts first walked on its surface.

China's Chang'e-4 made the first-ever soft landing on the far side of the moon on January 3, after a probe sent by Beijing made a lunar landing elsewhere in 2013.

US President Donald Trump's administration announced in March it was speeding up plans to send American astronauts back to the moon, bringing forward the target date from 2028 to 2024.

India hopes to become the next lunar country in the spring with its Chandrayaan-2 mission. It aims to put a craft with a rover onto the moon's surface to collect data.

Japan plans to send a small lunar lander, called SLIM, to study a volcanic area around 2020-2021.

The United States remains the only country to have walked on the moon, with 12 astronauts having taken part in six missions between 1969 and 1972.

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