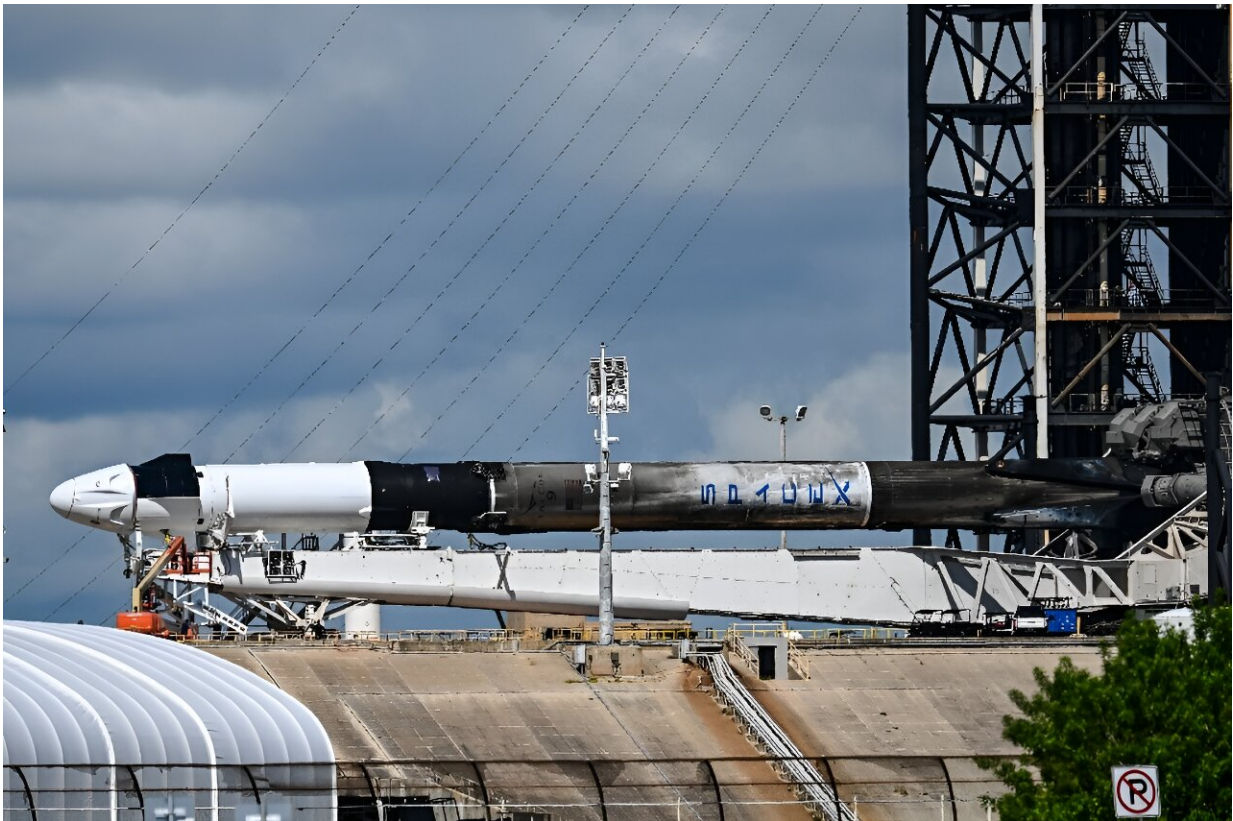


# SpaceX postpones historic mission featuring first private spacewalk

August 28 2024

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A SpaceX Falcon 9 rocket with the Crew Dragon Resilience capsule sits on Launch Complex 39A at Kennedy Space Center.

SpaceX on Tuesday postponed once more its attempt at launching a daring orbital expedition featuring an all-civilian crew that is aiming to

carry out the first-ever spacewalk by private citizens.

The Polaris Dawn mission, organized by billionaire entrepreneur Jared Isaacman, had been set to lift off from NASA's Kennedy Space Center in Florida during a four-hour window early Wednesday.

But SpaceX announced Tuesday it was pushing back the launch plans "due to unfavorable weather forecasted in Dragon's splashdown areas off the coast of Florida," in a message on X.

An earlier attempt on Tuesday was scrapped due to a helium leak on a line connecting the tower to the rocket.

Riding atop a Falcon 9 rocket, the SpaceX Dragon capsule is set to reach a peak altitude of 870 miles (1,400 kilometers)—higher than any crewed mission in more than half a century, since the Apollo era.

Mission commander Isaacman will guide his four-member team through the mission's centerpiece: the first-ever spacewalk carried out by non-professional astronauts, equipped with sleek, newly developed SpaceX extravehicular activity (EVA) suits.

Rounding out the team are mission pilot Scott Poteet, a retired US Air Force lieutenant colonel; mission specialist Sarah Gillis, a lead space operations engineer at SpaceX; and mission specialist and medical officer Anna Menon, also a lead space operations engineer at SpaceX.

The quartet underwent more than two years of training in preparation for the landmark mission, logging hundreds of hours on simulators as well as skydiving, centrifuge training, scuba diving, and summiting an Ecuadoran volcano.

Polaris Dawn is set to be the first of three missions under the Polaris

program, a collaboration between Isaacman, the founder of tech company Shift4 Payments, and SpaceX.

Isaacman declined to reveal his total investment in the project, though reports suggest he paid around \$200 million for the SpaceX Inspiration4 mission in September 2021, the first all-civilian orbital mission.

Polaris Dawn will reach its highest altitude on its first day, venturing briefly into the Van Allen radiation belt, a region teeming with high-energy charged particles that can pose health risks to humans over extended periods.

On day three, the crew will don their state-of-the-art EVA spacesuits—outfitted with heads-up displays, helmet cameras, and advanced joint mobility systems—and take turns to venture outside their spacecraft in twos.

Each will spend 15 to 20 minutes in space, 435 miles above Earth's surface.

Also on their to-do list are testing laser-based [satellite communication](#) between the spacecraft and Starlink, SpaceX's more than 6,000-strong constellation of internet satellites, in a bid to boost space communication speeds, and conducting nearly 40 scientific experiments.

These include tests with [contact lenses](#) embedded with microelectronics to continuously monitor changes in eye pressure and shape.

After six days in [space](#), the [mission](#) will conclude with the splashdown off the coast of Florida.

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Citation: SpaceX postpones historic mission featuring first private spacewalk (2024, August 28) retrieved 28 August 2024 from <https://phys.org/news/2024-08-spacex-postpones-historic-mission-featuring.html>

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