

# A rocket with a lunar landing craft blasts off on Russia's first moon mission in nearly 50 years

August 11 2023, by JIM HEINTZ and EMMA BURROWS

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In this photo taken from video and released by Roscosmos State Space Corporation, the Soyuz-2.1b rocket with the moon lander Luna-25 automatic station takes off from a launch pad at the Vostochny Cosmodrome in the Russia's Far East, on Friday, Aug. 11, 2023. The launch of the Luna-25 craft to the moon will be Russia's first since 1976 when it was part of the Soviet Union. The Russian lunar lander is expected to reach the moon on Aug. 23, about the same day as an Indian craft which was launched on July 14. Credit: Roscosmos State Space Corporation via AP

A rocket carrying a lunar landing craft blasted off Friday on Russia's first moon mission in nearly 50 years, racing to land on Earth's satellite ahead of an Indian spacecraft.

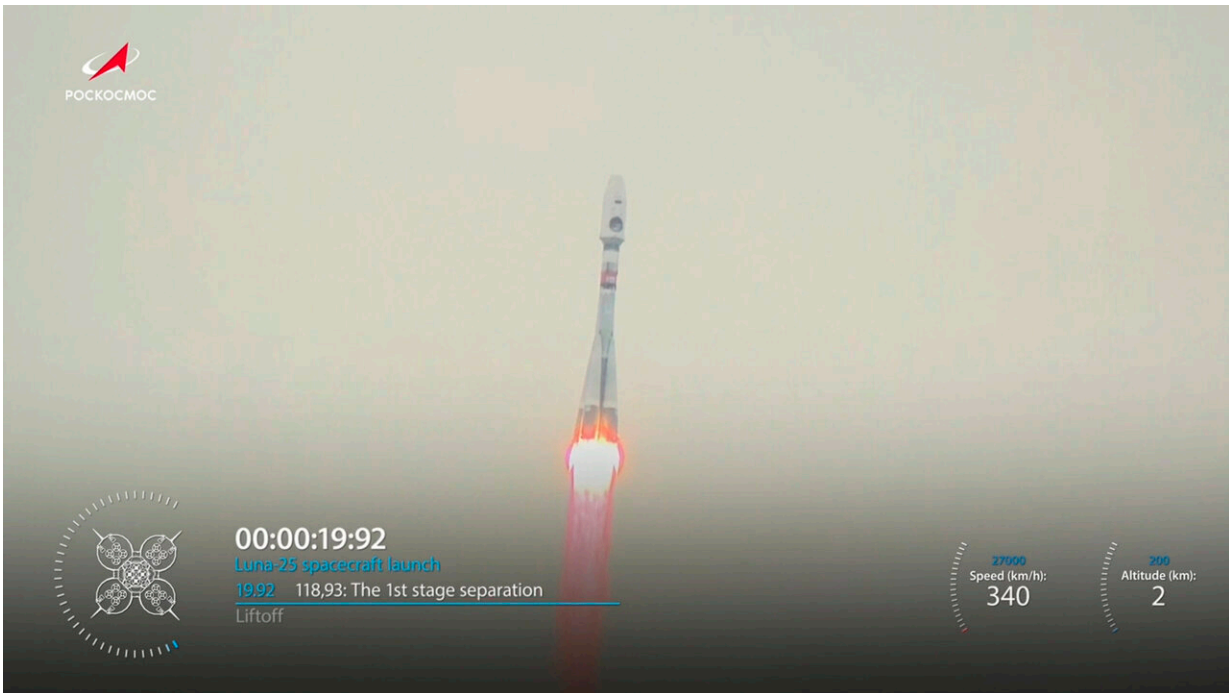
The launch from Russia's Vostochny [spaceport](#) in the Far East of the Luna-25 craft to the [moon](#) is Russia's first since 1976 when it was part of the Soviet Union.

The Russian lunar lander is expected to reach the moon on Aug. 23, about the same day as an Indian craft which was [launched on July 14](#). The Russian spacecraft will take about 5.5 days to travel to the moon's vicinity, then spend three to seven days orbiting at about 100 kilometers (62 miles) before heading for the surface.

Only three governments have managed successful moon landings: the Soviet Union, the United States and China. India and Russia are aiming to be the first to land at the moon's south pole.

Roscosmos, Russia's space agency, said it wants to show Russia "is a state capable of delivering a payload to the moon," and "ensure Russia's guaranteed access to the moon's surface."

"Study of the moon is not the goal," said Vitaly Egorov, a popular Russian space analyst. "The goal is political competition between two superpowers—China and the U.S.—and a number of other countries which also want to claim the title of space superpower."



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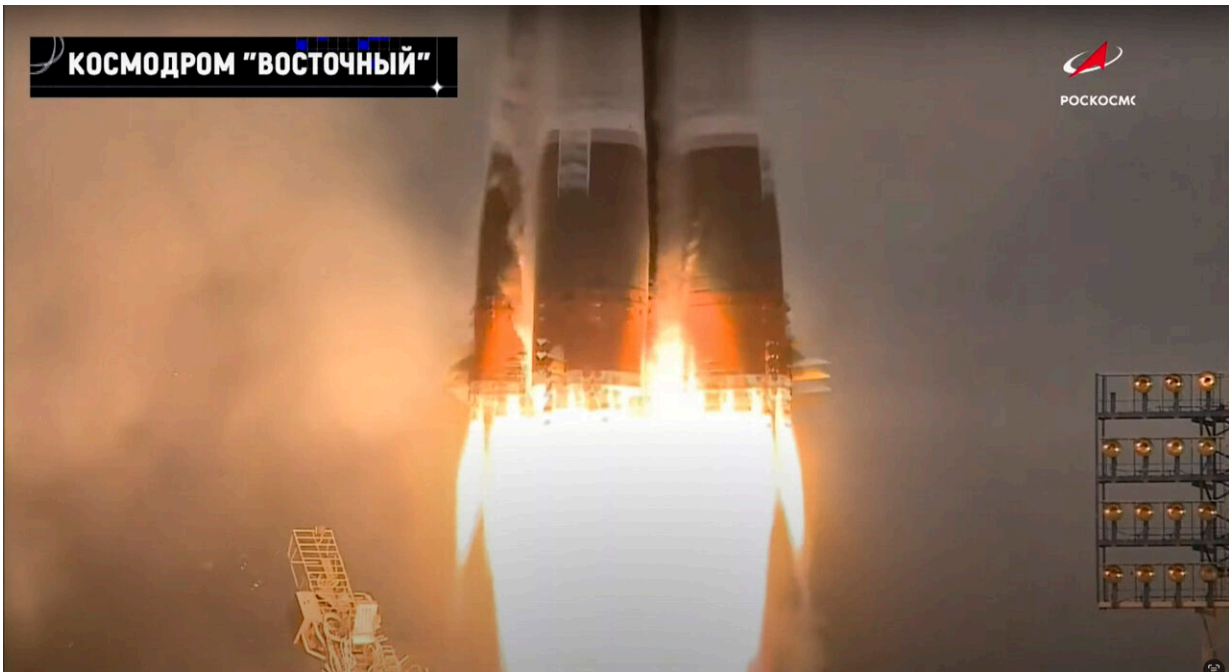
Sanctions imposed on Russia after it invaded Ukraine make it harder for it to access Western technology, impacting its space program. The Luna-25 was initially meant to carry a small moon rover but that idea was abandoned to reduce the weight of the craft for improved reliability, analysts say.

"Foreign electronics are lighter, domestic electronics are heavier," Egorov said. "While scientists might have the task of studying [lunar](#)

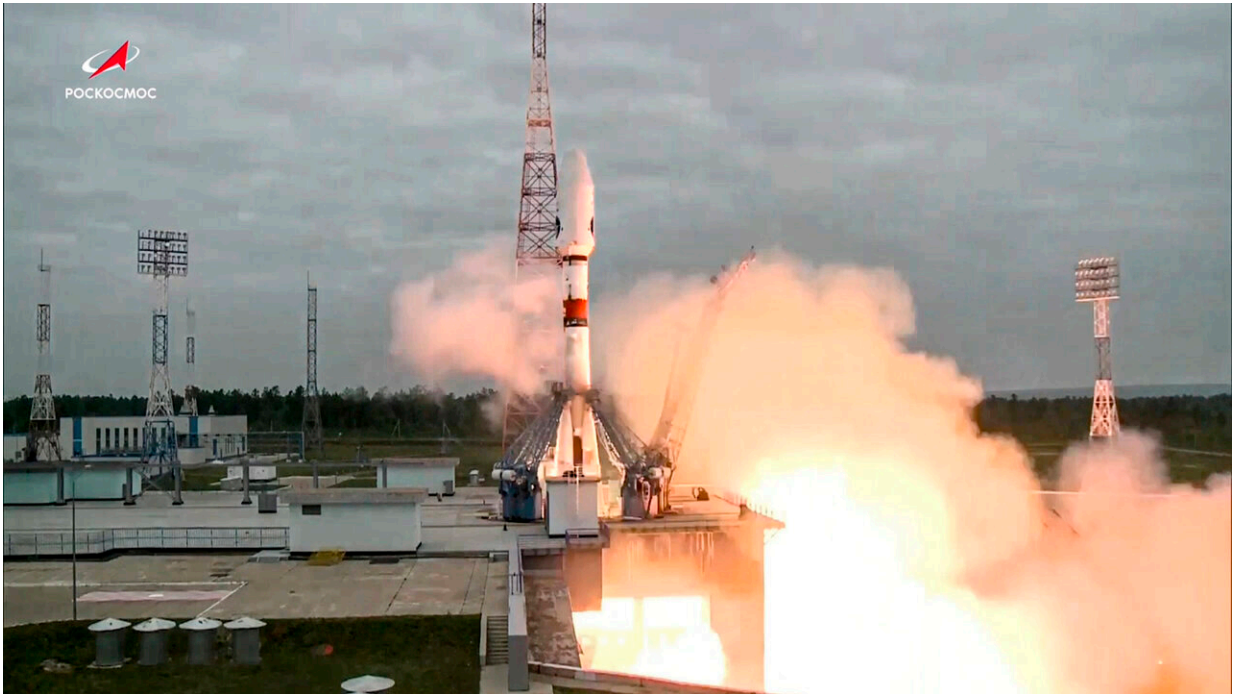
[water](#), for Roscosmos the main task is simply to land on the moon—to recover lost Soviet expertise and learn how to perform this task in a new era."

The Luna-25 launched flawlessly from the Vostochny Cosmodrome in Russia's Far East, according to video feed from Roscosmos.

The spaceport is a pet project of Russian President Vladimir Putin and is key to his efforts to make Russia a space superpower and move Russian launches from the Baikonur Cosmodrome in Kazakhstan.



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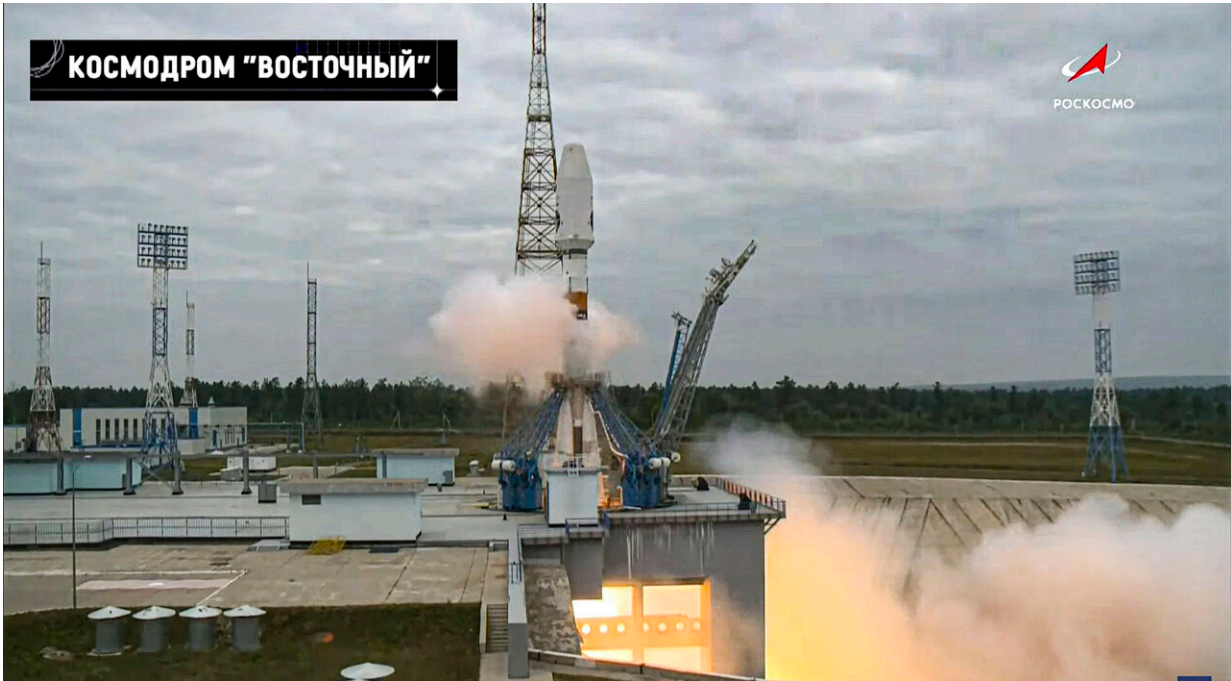


In this photo released by Roscosmos State Space Corporation, the Soyuz-2.1b rocket with the moon lander Luna 25 automatic station is set at a launch pad at the Vostochny Cosmodrome in the Russian Far East on Tuesday, Aug. 8, 2023. Luna 25 is a Russian lunar lander mission scheduled to launch later in August. Credit: Roscosmos State Space Corporation via AP

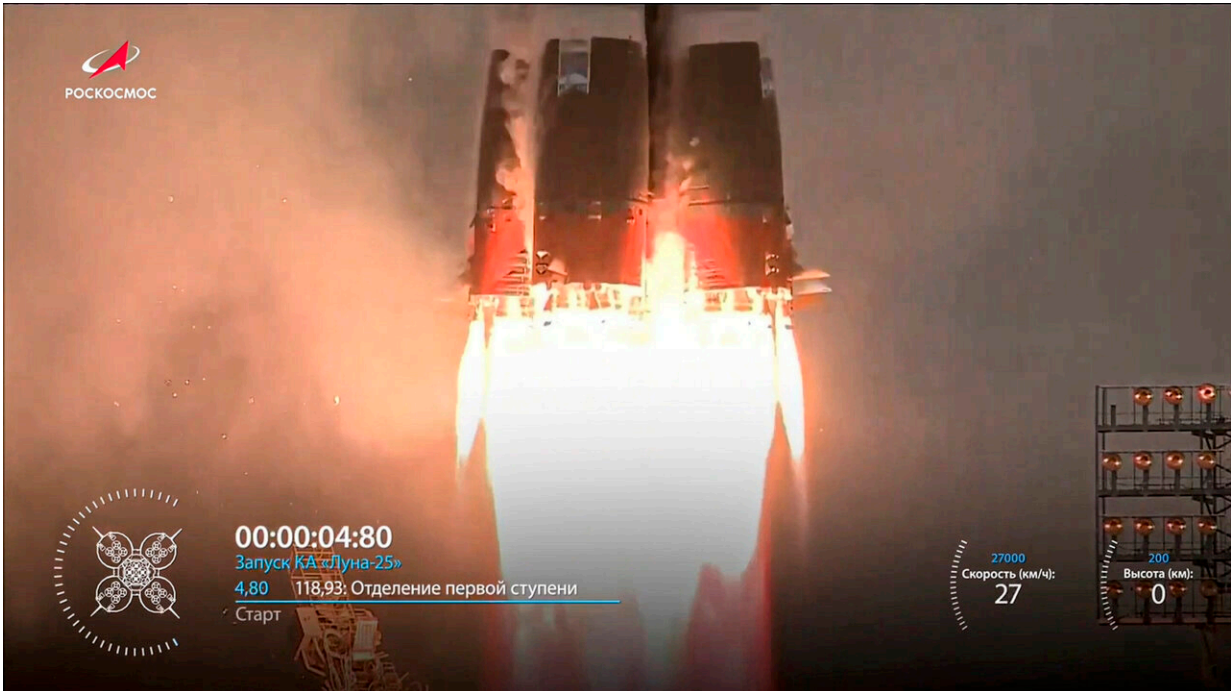


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A previous Indian attempt to land at the moon's south pole in 2019 ended when the lander crashed into the moon's surface.

The lunar south pole is of particular interest to scientists, who believe the permanently shadowed polar craters may contain water. The frozen water in the rocks could be transformed by future explorers into air and rocket fuel.

"The moon is largely untouched and the whole history of the moon is written on its face," said Ed Bloomer, an astronomer at Britain's Royal Observatory, Greenwich. "It is pristine and like nothing you get on Earth. It is its own laboratory."

The Luna-25 is to take samples of moon rock and dust. The samples are crucial to understanding the moon's environment ahead of building any base there, "otherwise we could be building things and having to shut them down six months later because everything has effectively been sand-blasted," Bloomer said.

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