

China shoots for first landing on far side of the moon (Update)

January 15 2016



The moon's far hemisphere is never directly visible from Earth and while it has been photographed, with the first images appearing in 1959, it has never been explored

China will launch a mission to land on the far side of the moon in two years' time, state media reported, in what will be a first for humanity.

The [moon](#)'s far hemisphere is never directly visible from Earth and while it has been photographed, with the first images appearing in 1959, it has never been explored.

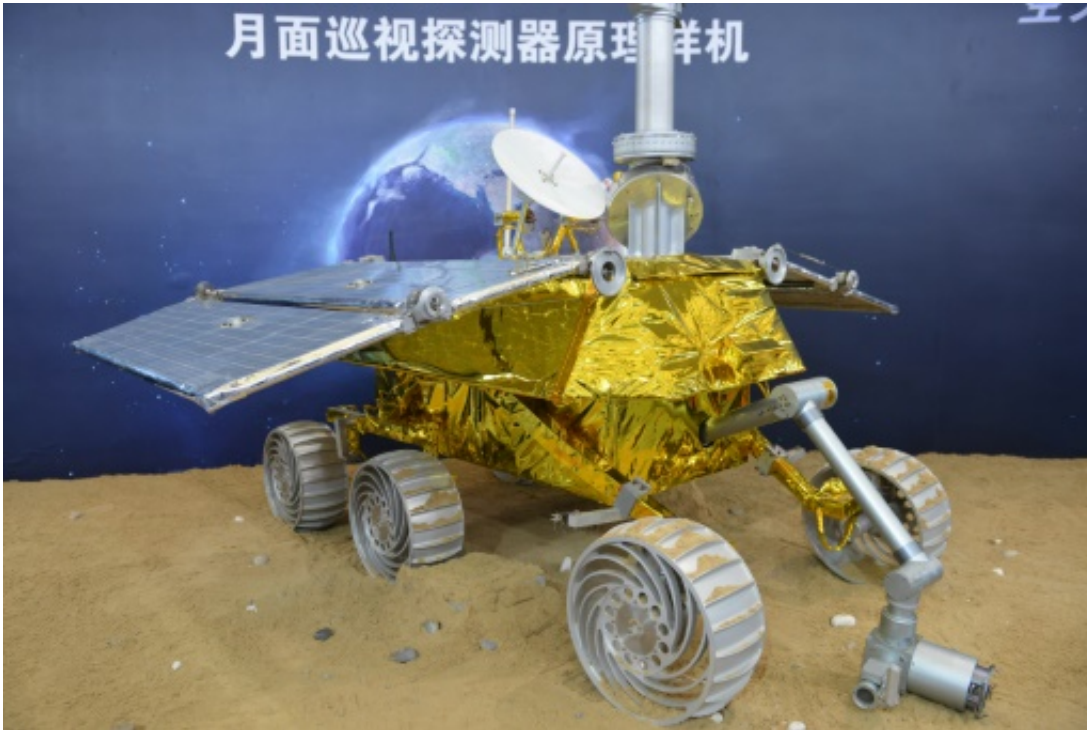
China's Chang'e-4 probe—named for the goddess of the moon in Chinese mythology—will be sent to it in 2018, the official Xinhua news agency reported.

"The Chang'e-4's lander and rover will make a soft landing on the back side of the moon, and will carry out in-place and patrolling surveys," it cited the country's [lunar exploration](#) chief Liu Jizhong as saying on Thursday.

Beijing sees its military-run, multi-billion-dollar space programme as a marker of its rising global stature and mounting technical expertise, as well as evidence of the ruling Communist Party's success in transforming the once poverty-stricken nation.

But for the most part it has so far replicated activities that the US and Soviet Union pioneered decades ago.

"The implementation of the Chang'e-4 mission has helped our country make the leap from following to leading in the field of lunar exploration," Liu added.



A model of a lunar rover known as The Yutu, or Jade Rabbit, seen on display at the China International Industry Fair in Shanghai, in 2013

In 2013, China landed a rover dubbed Yutu on the moon and the following year an unmanned probe completed its first return mission to the earth's only natural satellite.

Beijing has plans for a permanent orbiting station by 2020 and eventually to send a human to the moon.

Space flight is "an important manifestation of overall national strength", Xinhua cited science official Qian Yan as saying, adding that every success had "greatly stimulated the public's... pride in the achievements of the motherland's development."

Clive Neal, chair of the Lunar Exploration Analysis Group affiliated

with NASA, confirmed that the Chang'e-4 mission was unprecedented.

"There has been no surface exploration of the far side," he told AFP Friday.

It is "very different to the near side because of the biggest hole in the solar system—the South Pole-Aitken basin, which may have exposed mantle materials—and the thicker lunar crust".

The basin is the largest known impact crater in the solar system, nearly 2,500 kilometres wide and 13 kilometres deep.

"I am sure the international lunar science community will be very excited about this [mission](#)," he told AFP. "I know I am."

© 2016 AFP

Citation: China shoots for first landing on far side of the moon (Update) (2016, January 15)
retrieved 25 June 2024 from <https://phys.org/news/2016-01-china-dark-side-moon.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.