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Mars rover to move south after testing

Data, images obtained by Zhurong will be accessible to global researchers

China's Mars rover Zhurong will China's Mars rover Zhurong will continue moving southward to explore the Red Planet, focusing on key scientific issues, such as poten-tial locations of water and ice, as well as volcanic activities, accord-ing to a project leader. Liu Jianjum, chief designer of the Tanwen 1 mission's scientific sys-tem, said on Saturday that mission planners decided the rover would

planners decided the rover would move south out of scientific consid-

erations.
"Tianwen 1's landing site is on Planitia, near what many scientists believe was a shoreline of an ancient Martian ocean. The site is believed to have been covered by water, so heading southward is in the direction of the land," he said. "Scientists are convinced that this

the direction of the land," he said. "Scientists are convinced that this route will enable Zhurong to find some interesting geographical features, such as mud volcanoes and troughs, to observe and survey. This will help them to deepen their knowledge of water, ice and volcanoes on Mars and find answers to as yet unsolved questions."

In the first days after touching down on Mars on May 15, Zhurong tested its scientific equipment and transmitted data back to Earth for ground controllers' assessment and analysis. It is usid.

"Zhurong spent some days on testing because it is China's first Mars rover and we didn't know whether it would work as planned, so we had to check and analyze its data to make sure it operated well," the planetary geologist said. "After that, we will produce standard ata products and give them to scientists for formal research." products and give them to scien-tists for formal research."

According to Liu, all six pieces of scientific equipment mounted on Zhurong — including a multispect-ral camera, ground-penetrating

nadar and a meteorological sensor

— have started operating. He noted
that data and images obtained by
Zhurong will be first provided to
Chinese scientists and then will be
accessible to researchers from
around the world.

Sun Zorobou bend designer of the

around the world.

Sun Zezhou, head designer of the Tianwen 1 probe, said Zhurong's condition is better than what designers expected, largely thanks to the weather on the Red Planet in recent days.

"The temperature of the Red Planet in recent days."

"The temperature and sunlight have been better than our expecta-tion, and this has allowed Zhurong to carry out its tasks at a faster pace

to carry out its tasks at a faster pace than we predicted," he said on Sat-urday. "We think it could work longer than its three-month designed life expectancy." Sun, a senior designer at the Chi-na Academy of Space Technology, said the rover has been pro-grammed to enter dormancy under extreme conditions, like lengthy sandstorms, and then reactivate itself.

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The 240-kilogram Mars rover is the core component of China's Tianwen 1 mission, the country's first interplanetary foray and also is the sixth rover on the Red Planet following five from the United States. The 1.85-meter-tall robot is now hundreds of millions of kilometers from Earth.

The rover's six wheels, powered by four solar panels, can move it at 200 meters and hour on the Martian surface.

Tianwen 1, named after an ancient Chinese poem, was alunched by a Long March 5 heavy-lift carrier rocket on July 23 from the Wenchang Space Launch Conter in Hainan province, beginning the nation's first mission to another planet.

planet.

The spacecraft traveled more than 470 million km and carried out sever-al trajectory maneuvers before enter-ing the orbit of Mars on Feb 10.

Next stop Jupiter as country's interplanetary ambitions grow

By ZHAO LEI

Barely a month after China landed narety a montin after China landed its first rover on Mars, the country's scientists already have plans to explore Jupiter, the largest planet in our Solar System.

explore Jupiter, the largest planet in our Solar System.

Zhang Rongqiao, an official at the China National Space Administration and chief planner of the Tianten I Mars mission, dold reporters at a news conference at his administration's Beiging headquarters on Sasconitor Beiging headquarters on Sasconitor Beiging headquarters on Sarchina Seliging headquarters on Sasconitor Beiging headquarters on Sasconitor Beiging headquarters on Sasconitor Beiging headquarters of the selicity of the Jupiter mission. Humankind still head so the Jupiter mission. Humankind selicity of the Jovan system, and has conducted only a handful of operations there, he said. "Therefore the gas gaint is full of opportunity for science and discovery."

In addition to its scientific value, an expedition to Jupiter will lead to the development of new inventions.

an expedition to Jupiter will lead to the development of new inventions and technologies, Zhang added.

"Such a mission will require us to "Such a mission will require us to develop new technologies for longer-lived spacecraft, better tracking and controlling and improved energy sources," he explained. "In sum, it will push forward our space exploration capabilities considerably."
Zhang did not provide detailed information on the planned mission, its schedule or method of exploration.

tion.

Although Jupiter has been known since ancient times, the first detailed observations were made by Galileo Galilei in 1610, using a small tele-

Gallie in 1610, using a small tele-scope.

The first spacecraft to vist Jupiter was the United States' Plomeer 10, back in 1973. Since then, the planet has been visited by several passing probes and orbiters.

The most recent Jovian mission was launched by NASA in August 2011. The spacecraft, hamed Juno, began to travel in a polar orbit of the gas giant in July 2016, and has been conducting an investigation of Jupiconducting an investigation of Jupi-ter's atmosphere, deeper structure and magnetosphere for clues to the planet's origin and evolution.