## Heavy payload balloon lifted to near-space heights

November 1 2022, by Li Yuan


The balloon launch vehicle and gondola in the preparatory step. Credit: AIR

A high-altitude scientific balloon containing 1.2-ton payloads was lifted into the sky and reached an altitude of 30 km in a demonstration test that helped validate the payload capacity of a near-space balloon platform.

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The flight test was conducted in northwestern China's Qinghai Province on September 30, 2022, by a research team from the Aerospace Information Research Institute (AIR) of the Chinese Academy of Sciences (CAS), marking a further step in the development of China's high-altitude balloon platform.

Delivering payloads from the ground to the stratospheric region known as "near-space," the balloon platform can carry tons of scientific instruments, especially large-sized ones such as unmanned air vehicles over aerial-based launches.



## The balloon is ascending into the sky. Credit: AIR

During this test, the uninflated length of the balloon reached over 100 m . When fully inflated, the balloon reached the size of 180,000 cubic meters. Despite its big size, the ballooning was well controlled, and its gondola returned to the ground soundly.

## Provided by Chinese Academy of Sciences

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