

AMADEE-24 Mars Analog Mission

AMADEE-24 is a Mars analog simulation in Armenia, managed by the Austrian Space Forum hosted by the Armenia Aerospace Agency. The expedition will be carried out from 05March to 05April 2024 in a Martian terrestrial analog and is directed by a dedicated Mission Support Center in Austria. A small field crew of highly trained analog astronauts with spacesuit simulators will conduct experiments preparing for future human and robotic Mars exploration missions. More than 200 scientists from over 25 countries participate in AMADEE-24.



Analog-Astronauts Anika Mehlis and Carmen Köhler wearing the OeWF-Spacesuit Prototype
Photo: Florian Voggeneder/ÖWF

A six-person team of analog astronauts will spend four weeks testing equipment and procedures designed to detect traces of life and will also research the psychological effects of work under time pressure and in isolation. The analog astronauts will live in a habitat specially designed for the mission and can only leave it wearing the ÖWF spacesuit prototype. A 10-minute time delay was built into the communication between the test site and the Mission Support Center in Vienna to simulate the signal transit time between Earth and Mars.



ÖSTERREICHISCHES WELTRAUM FORUM
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The OeWF is one of five institutions worldwide that has developed such a complex Mars suit prototype. This can reflect all the main limitations of a real Mars spacesuit, such as weight, pressure counterforces or limited perception capabilities. A sophisticated human-machine interface, a system of sensors and self-developed software make the suit a virtual assistant to the astronaut.

During AMADEE-24, test will be carried out in the areas of natural sciences, engineering, biomedicine and psychology. These representative and realistic simulations increase the acquisition of scientific knowledge, optimize the safety of the processes used and promote technology transfer.

About the Austrian Space Forum (OeWF)

The Austrian Space Forum (Österreichisches Weltraum Forum, OeWF) is a private space research institution and a network for spaceflight specialists, business/industry and people interested in space. We conduct Mars Analog Missions on a regular bases, involving scientists and institutions from all over the world. The OeWF is playing a leading role in two international Cube-Sat missions that have been detecting space debris in Near Earth Orbit since 2022. We cooperate with international research institutions and companies and are in constant dialog with the media and decision makers. With 250 members from 20+ nations, the Austrian Space Forum focuses on scientific excellence, starts, shapes and networks careers and has been inspiring people all over the world since 1998.

<https://oewf.org/en/amadee-24/>

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