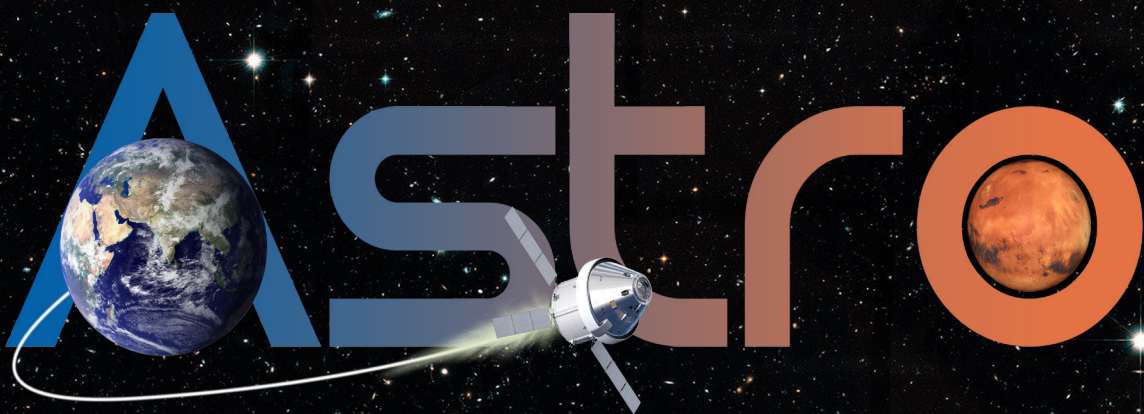




An ESBAS Enterprise



Global Friendship Through Space Education



CONTENTS

- NASA Will Fly a Helicopter on Mars 1
- NASA Ready to Land Another Rover on Mars 1
- 1st Mars Closeup From UAE's Hope Orbiter 2
- NASA's TESS Discovers New Worlds 2
- What is the Milky Way? 3
- How to Supply Medicine for Astronauts on Mars 3



NASA Will Fly a Helicopter on Mars for the First Time

NASA describes Ingenuity's mission as a "technology demonstration": a project that seeks to test a new capability together with the astrobiology mission of Perseverance. Up to five flights of gradual difficulty are planned, over a window of one month, within the first few months of the mission. Ingenuity will fly at altitudes of 3-5 meters and travel as far as 50 meters from its starting area and back. Like the Perseverance rover, Ingenuity is too far away from Earth to be operated using a joystick, and is therefore designed to fly autonomously.

Phys.org

MARS PERSEVERANCE

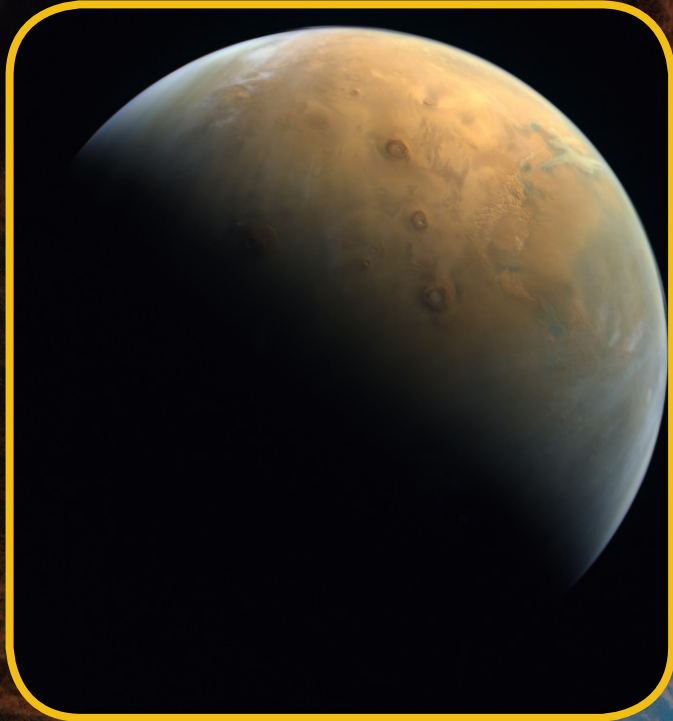


NASA Ready to Land Another Rover on Mars

With about 3.9 million kilometers left to travel in space, NASA's Mars 2020 Perseverance mission is days away from attempting to land the agency's fifth rover on the Red Planet. Engineers at NASA's Jet Propulsion Laboratory in Southern California, where the mission is managed, have confirmed that the spacecraft is healthy and on target to touch down in Jezero Crater at around 8:55 p.m. GMT on Feb. 18, 2021.

MarsDaily.com

1st Mars Closeup From UAE's Hope Orbiter



Just one day after arriving in orbit around Mars, the United Arab Emirates' (UAE) first interplanetary spacecraft, Hope, captured a stunning photograph of the Red Planet.

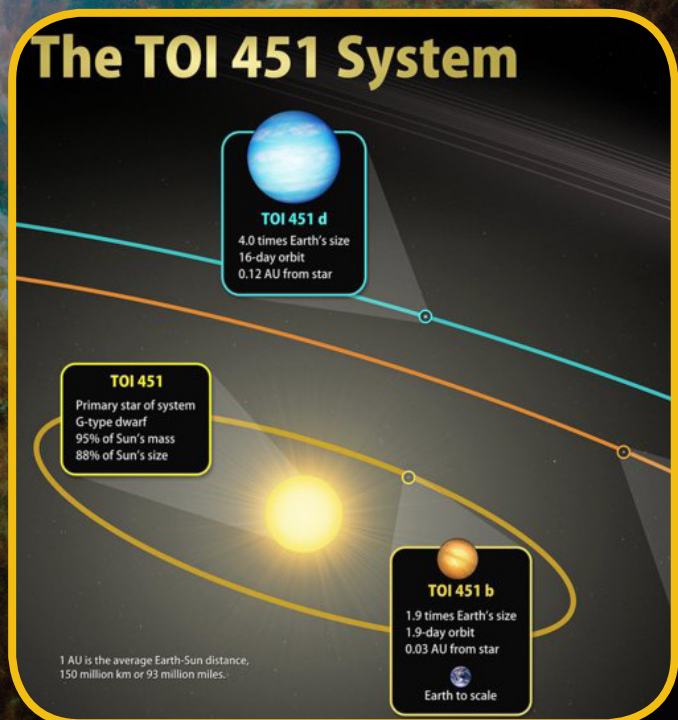
The new photo, which is the first since Hope's arrival in Mars orbit on Feb. 9, shows a smattering of clouds, four massive Martian mountains and the vast Valles Marineris (the largest canyon in the solar system) in the right side of the image.

Space.com

NASA's TESS Discovers New Worlds

Using observations from NASA's Transiting Exoplanet Survey Satellite (TESS), an international team of astronomers has discovered a trio of hot worlds larger than Earth orbiting a much younger version of our Sun called TOI 451. The system resides in the recently discovered Pisces-Eridanus stream, a collection of stars less than 3% the age of our solar system that stretches across one-third of the sky.

Technology.org



What is the Milky Way?



When someone says “Milky Way,” do you think of the starry pathway across our sky, or of the great pinwheel-shaped galaxy in space? Both are correct! Our galaxy, the Milky Way, is a lot more than we can see from Earth without instruments. Here, we look into the origin of the name, the structure, and the fascinating history of how our knowledge of our own galaxy has developed over the centuries and continues to develop today.

EarthSky.org

How to Supply Medicine for Astronauts on Mars

Rather than sending astronauts into space with a costly and finite stock of medicines, scientists have approached the problem a little differently. This is one of the solutions that CUBES, a Space Technology Research Institute established by NASA in February 2017, is attempting to develop. And it is doing so using the tools and techniques of synthetic biology, a scientific field that uses engineering to build new biological organisms on demand.

Astronomy.com

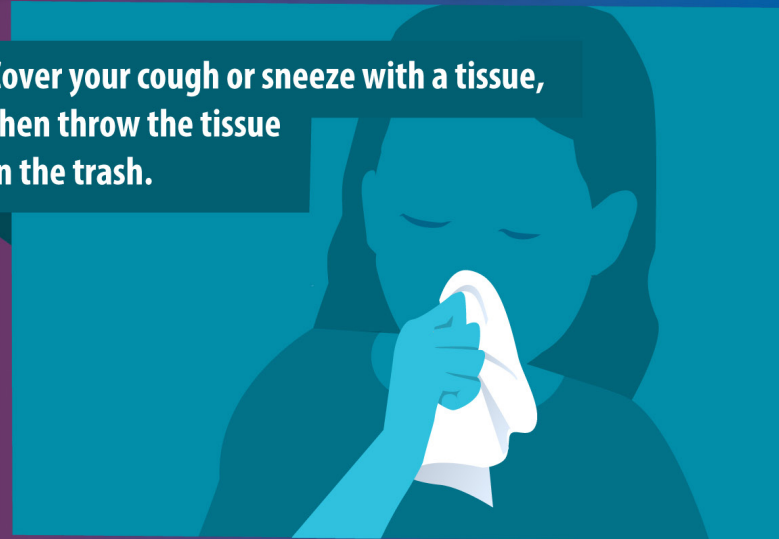


How to Protect Ourselves?

Avoid close contact with people who are sick.



Cover your cough or sneeze with a tissue, then throw the tissue in the trash.



Avoid touching your eyes, nose, and mouth.



Clean and disinfect frequently touched objects and surfaces.



Stay home when you are sick, except to get medical care.



Wash your hands often with soap and water for at least 20 seconds.



Astronomy Picture of the Day

Spiral Galaxy NGC 1350

Image Credit & Copyright: Mike Selby, Warren Keller

This gorgeous island universe lies about 85 million light-years distant in the southern constellation Fornax. Inhabited by young blue star clusters, the tightly wound spiral arms of NGC 1350 seem to join in a circle around the galaxy's large, bright nucleus, giving it the appearance of a cosmic eye. In fact, NGC 1350 is about 130,000 light-years across. That makes it as large or slightly larger than the Milky Way. For earth-based astronomers, NGC 1350 is seen on the outskirts of the Fornax cluster of galaxies, but its estimated distance suggests that it is not itself a cluster member. Of course, the bright spiky stars in the foreground of this telescopic field of view are members of our own spiral Milky Way galaxy.

apod.nasa.gov



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