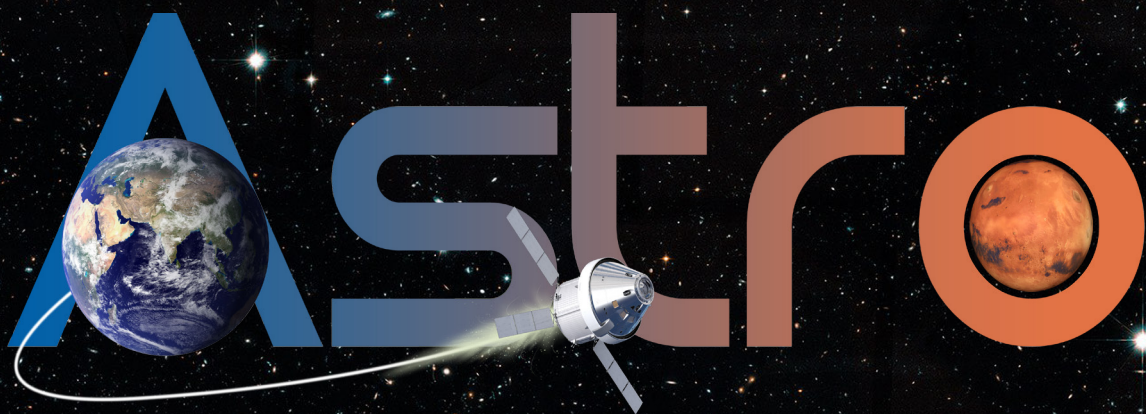




An ESBAŞ Enterprise



Global Friendship Through Space Education



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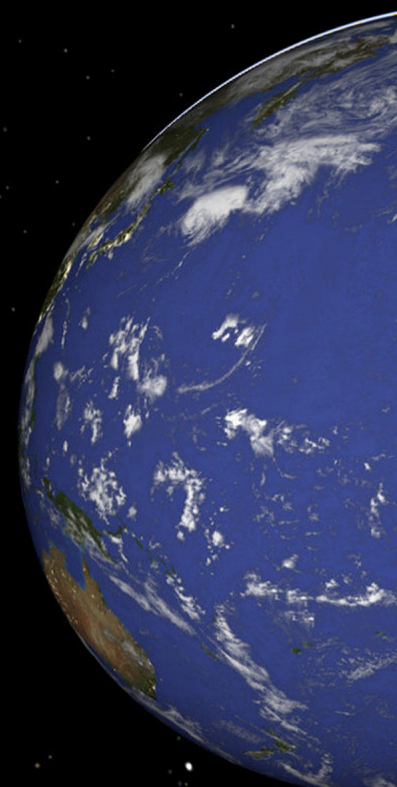
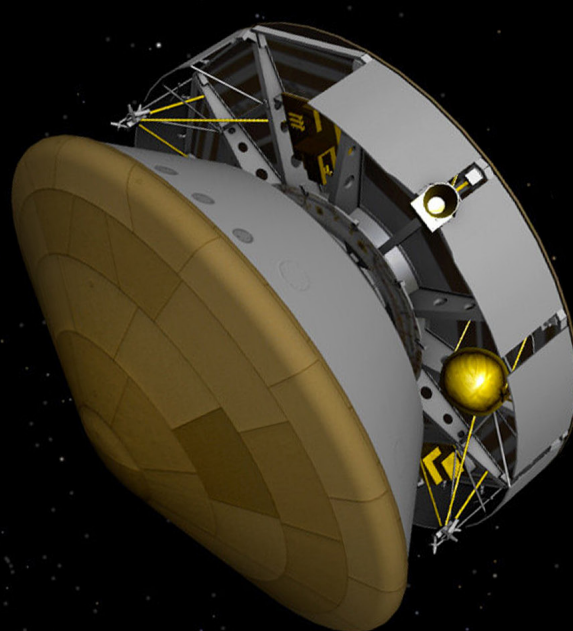


Are We Still Listening to Space?

When LIGO, the Laser Interferometer Gravitational-Wave Observatory, and its European counterpart, Virgo, detect a gravitational ripple from space, a public alert is sent out. That alert lets researchers know with decently high confidence that this ripple was probably caused by an exceptional cosmic event, such as the collision of neutron stars or the merging of black holes, somewhere in the universe.

LIGO suspended its third observational run due to Covid-19. If a cosmic event happens in the universe and there's no one there to detect it, did it even happen?

Technology.org

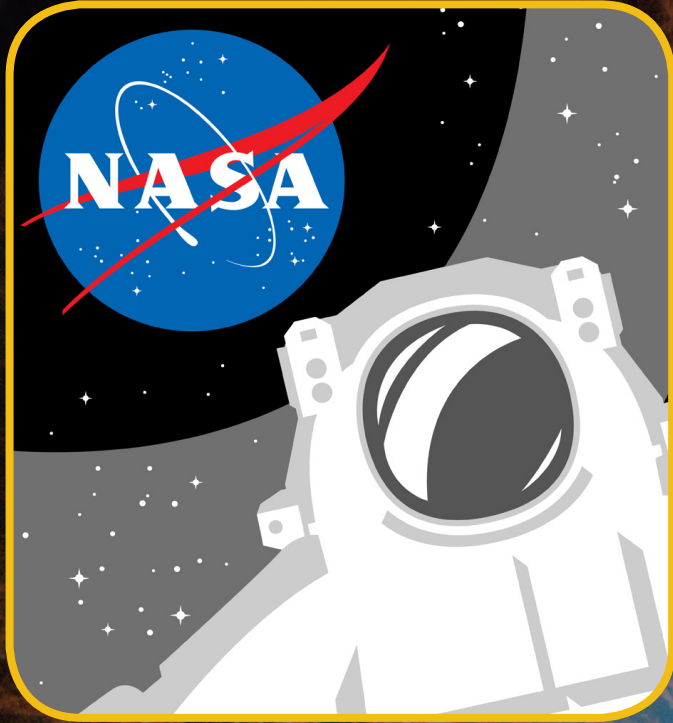


Follow NASA's Perseverance Rover In Real Time on Its Way to Mars

The last time we saw NASA's Mars 2020 Perseverance rover mission was on July 30, 2020, as it disappeared into the black of deep space on a trajectory for Mars. But with NASA's Eyes on the Solar System, you can follow in real time as humanity's most sophisticated rover—and the Ingenuity Mars Helicopter traveling with it—treks millions of miles over the next six months to Jezero Crater.

Phys.org

NASA Perseveres Through Pandemic, Looks Ahead in 2020, 2021



With 2020 more than half way through, NASA is gearing up for a busy rest of the year and 2021.

Following the recent successful launch of a Mars rover and safely bringing home astronauts from low-Earth orbit aboard a new commercial spacecraft, NASA is looking forward to more exploration firsts now through 2021. The agency is sending the first woman and next man to the Moon in 2024, establishing sustainable exploration by the end of the decade as part of the Artemis program while getting ready for human exploration of Mars.

SpaceDaily.com

Is It Possible to Hear Meteors?

Sometimes, meteors seem to make a sound at the same time that they are being seen. These meteors would be seen and heard simultaneously. Is this possible? Yes, according to astronomers. There are what astronomers call “electrophonic meteors.” Basically, the explanation is that these meteors give off very low frequency (VLF) radio waves, which travel at the speed of light. Even though you can’t directly hear radio waves, these waves can cause physical objects on the Earth’s surface to vibrate. The radio waves cause a sound, which our ears might interpret as the sizzle of a meteor shooting by.



EarthSky.org

What Is It Like to be In Zero Gravity?



When standing still, you actually experience the force we call gravity when you feel the Earth pull us toward its center. Gravity pulls you down, and the floor pushes up on your feet. If gravity disappeared, you could push off of the floor and float away, never returning to the floor unless you found a ceiling to push off of again. You would appear to float around like someone in a “vomit-comet” airplane flight or an astronaut in the International Space Station.

Astronomy.com

SpaceX's Crew Dragon Capsule For Next NASA Astronaut Launch Arrives in Florida

SpaceX is forging ahead with preparations for its next NASA astronaut mission, currently slated for a late October launch. The Crew Dragon capsule that will launch the Crew-1 flight to the International Space Station arrived in Florida on Tuesday (Aug. 18). The spacecraft made the trip from SpaceX's headquarters in Hawthorne, California, and is now being processed at company facilities at Cape Canaveral Air Force Station. Crew-1 will lift off from NASA's nearby Kennedy Space Center no earlier than Oct. 23 atop a SpaceX Falcon 9 rocket.



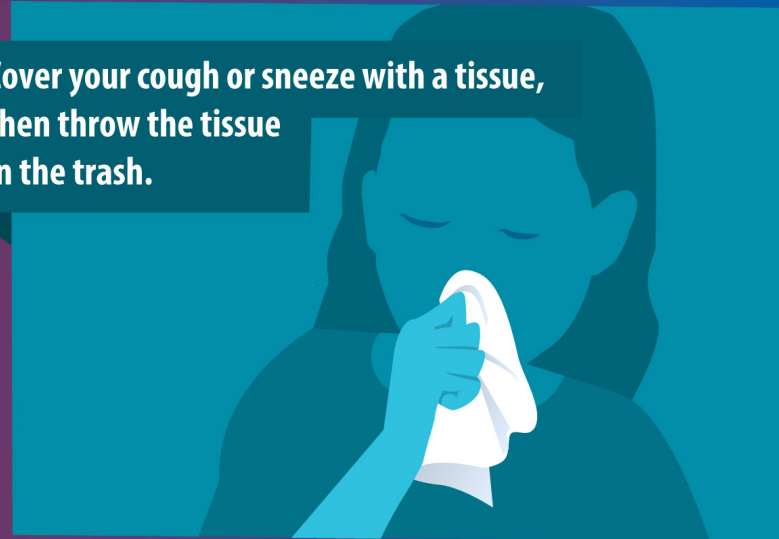
Space.com

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

Crescent Moon HDR

Image Credit & Copyright: Miguel Claro (TWAN, Dark Sky Alqueva)

How come the crescent Moon doesn't look like this? For one reason, because your eyes can't simultaneously discern bright and dark regions like this. Called earthshine or the da Vinci glow, the unlit part of a crescent Moon is visible but usually hard to see because it is much dimmer than the sunlit arc. In our digital age, however, the differences in brightness can be artificially reduced. The featured image is actually a digital composite of 15 short exposures of the bright crescent, and 14 longer exposures of the dim remainder. The origin of the da Vinci glow, as explained by Leonardo da Vinci about 510 years ago, is sunlight reflected first by the Earth to the Moon, and then back from the Moon to the Earth.

apod.nasa.gov



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