

# The *Weekly Dome Report*

Week of November 2, 2020..... Volume 29..... Space News and Stuff

## Upcoming Events

### Monday, Nov. 2

6pm.....Mythology Monday  
- *Welsch Mythology*

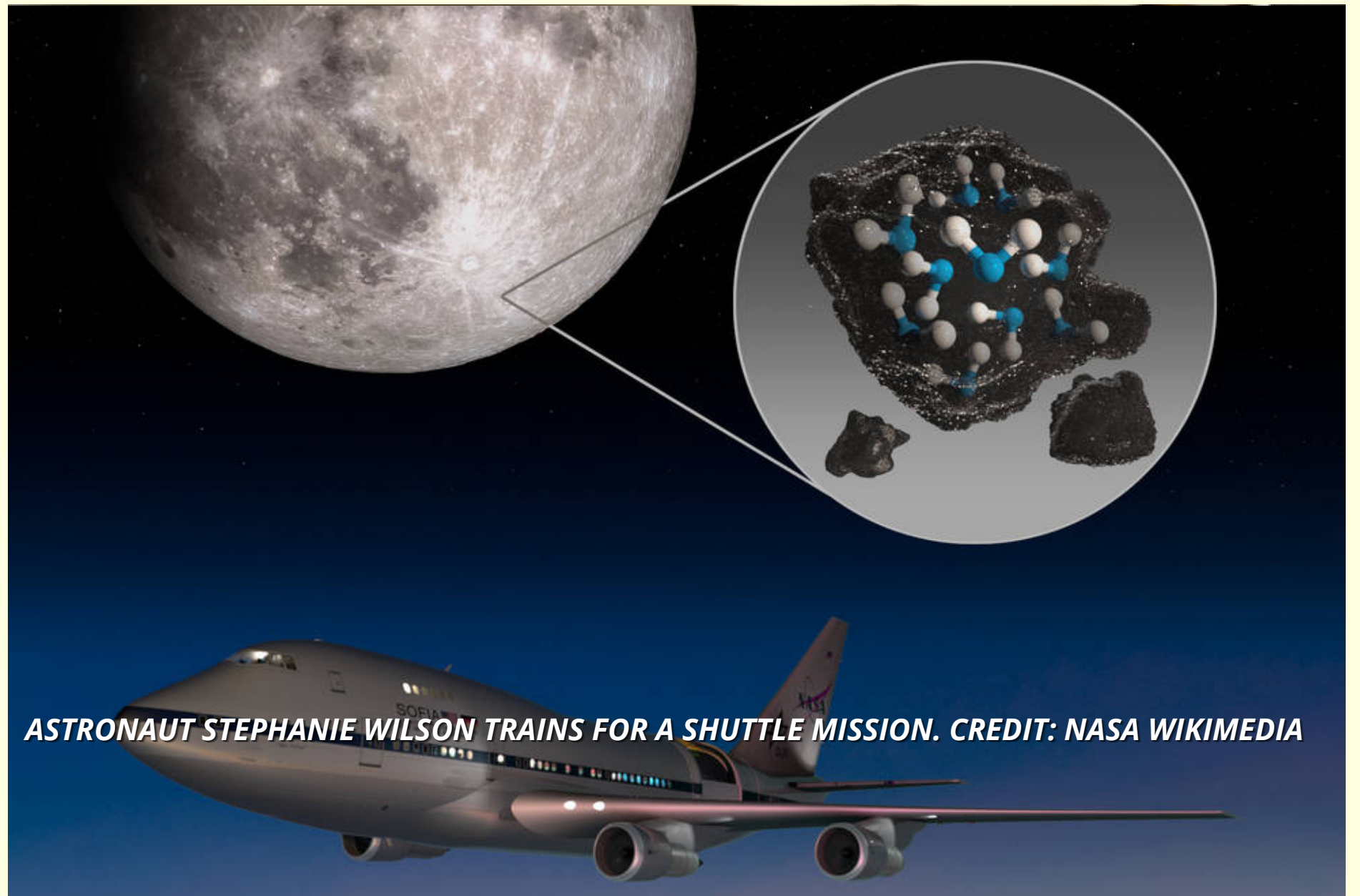
### Friday, Nov. 6

6pm.....Final Frontier Friday  
- *Speed of Light*

### Saturday, Nov. 7

2pm.....Stellar Saturday  
- *Solar System Tour*  
7pm.....Stellar Saturday  
- *Earth Tour*

## WOMEN TO MARS



NASA recently discovered water on the sunlight side of the moon using its Stratospheric Observatory for Infrared Astronomy (SOFIA).

This water amounts to about 12 fluid ounces per cubic meter of the lunar soil spread out on the surface. We previously discovered ice on the shadowy poles of the moon hidden away in craters, and we have observed hydration on the moon's surface, but we could not discern if it was water or some other hydrogen based compound.

These new observations were made possible by the unique SOFIA, which is a modified Boeing 747SP jetliner that carries a 106-inch diameter telescope at 45,000 feet to reach above 99% of the water vapor in Earth's atmosphere. This allows it to observe its usual target of deep space better.

This discovery raises important questions about the moon and water, as the moon has very little atmosphere to protect the water on its surface. There are a multitude of theories about how the water got there and how it stays, and it might help future expeditions to the moon if we discover larger amounts of water on the surface.

The presence of water on the moon is certainly an exciting prospect for future astronauts and possible future bases on the lunar surface.

## WEIRD SPACEFACT

MOONS CAN HAVE  
MOONS. AND THEY'RE  
CALLED MOONMOONS.

## FREE HUMOR



Original Story: <https://www.nasa.gov/press-release/nasa-s-sofia-discovers-water-on-sunlit-surface-of-moon/>

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