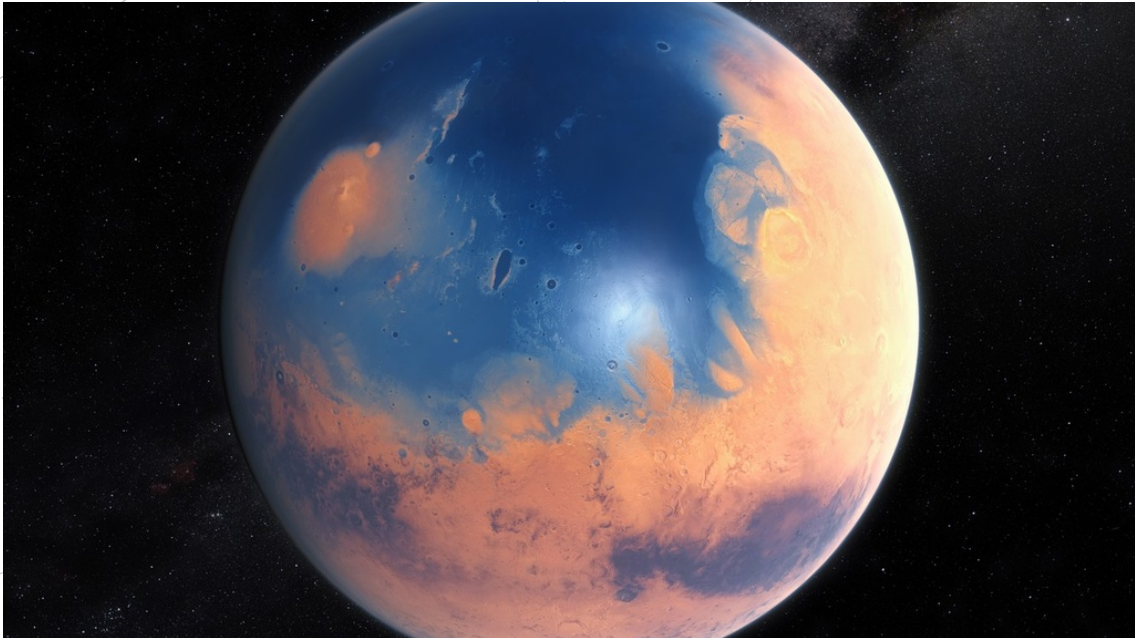


SPACE SCOOP
NEWS FROM ACROSS THE UNIVERSE



The Planet That Lost an Ocean

March 5, 2015

Billions of years ago the surface of Mars looked very different than it does today. Where there is now only a dry red desert, there was once an vast ocean that covered about 20% the planet's surface. That means it covered more of the surface of Mars than the Atlantic Ocean covers on Earth!

The water from this giant ocean would have been enough to cover the entire surface of the planet with a layer of water over 100 metres deep!

This information comes from a new study of Mars' atmosphere. Scientists were looking at the amount of two different types of water.

One is normal water, the type we drink and bathe in. The other contains a special type of hydrogen, called deuterium (dyu-TEER-ium). This hydrogen creates a type of water that's slightly heavier than normal water.

This is important because it means that the sun's rays cause normal, 'lighter' water to evaporate (turn into steam) and float away into space more quickly than the other type of water.

So, by looking at how much heavy water is in Mars' atmosphere in comparison to the lighter kind, we can tell how much normal water the planet has lost into space.

The new results tell us that Mars was probably a wet world for much longer than we thought. Meaning that, more importantly, it was suitable for life for longer than we thought!

▲ COOL FACT!

It's possible that Mars once had even more water hiding below the surface. And some of it might still be there today!