Water ice exists on the poles and surface features show a history of liquid water. There could be underground lakes below the cold, dry surface.

Moons of Jupiter
- Europa
- Ganymede

Both of these large moons have icy surfaces and likely have liquid water oceans beneath.

Moons of Saturn
- Titan
- Enceladus

Titan has a thick nitrogen atmosphere, with water ice and methane lakes on the surface. Clouds rain methane, not water.

Note: Saturn and Jupiter orbit too distantly to get much warmth from the Sun. These moons are “tidally heated” or stretched and warmed by the gravity of the large planets they orbit. Saturn and Jupiter both have many other moons that are not tidally heated.

Clouds create water rain, feeding rivers, lakes and oceans of salty water.

Earth
- Temperature is warm enough for liquid water.

Clouds rain methane, not water.

A liquid ocean may exist below the icy surface.

Scaled distance of the planets' orbits from the Sun

This tiny moon sprays liquid water from many geysers. A liquid ocean may exist below the icy surface.

Watery Worlds of Our Solar System

To scale size with the 1/2 meter (19 inch) Earth, left