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The moon plays a very big part in the Earth's Ecosystem. The moon's gravitational field has a huge effect on the ocean's tides which also influence important processes where the marine and land environments meet. The coastal processes are "vital" to the food that supports the ecosystem of the ocean.

Another important role is how the moon's gravity reacts to minimize the Earth's wobble in the axis, which the planet rotates. Reducing the wobble means reducing the seasonal extremes between summer and winter. In turn producing a more stable climate. If it wasn't for the moon, the complex life-forms would not be able to evolve on earth.

Due to various space and ground based studies, scientists have learned that there are false color images taken from data by the Galileo spacecraft as it headed towards Jupiter in 1992. Each color represents rocks of different chemical composition, which reflect differently in different terrain, including the rugged lunar highlands and low-lying lunar seas.

When the Apollo landed on the moon, they brought back rocks that were studied and it proves the age of the moon is similar to earth. 4.5 billion years old.