



What could be inside the hollow interior of Phobos, moon of Mars?

In 2008 and 2010, the European Space Agency's Mars Express spacecraft made close passes of Phobos, the innermost and largest of the two moons of Mars, and determined it is hollow. While Earth is 50% hollow, Phobos was determined by the Mars Express to be 30% hollow. It also determined that Phobos has an atmosphere inside its hollow interior, and has detected some of it leaking outside the moon's shell. It was also found to have an electromagnetic field, which indicates that Phobos has an Interior Sun that rotates at a rate different than the moon's shell, thus giving rise to the observed electromagnetic field.

Also discovered on the surface of Phobos is a monolith that some think may be some kind of entrance into its hollow interior, similar as was depicted in the original series Star Trek episode, "The World is Hollow and I've Touched the Sky," in its third season.

Like our Moon, Phobos is also tidally locked with Mars causing only one side to be visible from the planet. However, different than our Moon which has a spherical shape, Phobos looks like an asteroid with an irregular shape pit marked by many craters and having many striations running across its outer surface.

Phobos is much smaller than our Moon. Earth's Moon has a mean diameter of 2,159 miles, while Phobos has a mean diameter of only 14 miles. Our Moon has an average orbital distance from Earth of 238,900 miles and takes 27.3 days to orbit Earth once, while Phobos orbits Mars at a very close distance of only 3,700 miles and orbits Mars in just 7 hours and 39 minutes twice each Martian day.

This evidence indicates that Phobos has an Inner Sun that rotates at a rate different than its shell giving rise to its electromagnetic field and with the evidence from the Mars Express spacecraft ground penetrating radar that Phobos is hollow and has an interior atmosphere, it perhaps could be inhabited or habitable by humans, animals and plant life in its interior, if it also has water.

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