

Crop the cards...

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What is the difference between currents, waves, and tides?

All of them are all movements of water masses but they are the results of different processes. Tides are due to the interaction between the Sun, the Earth, and the Moon.

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How many times a day does a tide change?

There are three kinds of tides, depending on the place on the Earth where they happen. They can be **diurnal**, with one high and one low tide per day, **semidiurnal** and **mixed** with two high and two low tides per day. The differences are due to the position of the Moon with respect to the Equator.

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What is the main cause of tides on our planet? Is this the Sun or the Moon?

It is the **Moon** because it is much closer to the Earth than the **Sun**.

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How do tides form?

The **forces** involved in the generation of tides are a **gravitational pull** and a **centrifugal force**. They counterbalance each other and create swells on the opposite sides of the Earth.

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What creatures live in tide pools?

Those are fish, molluscs, crustaceans, and other living organisms, as well as plants (algae). They have developed strategies to survive in such a varying environment.

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How are tides measured?

Tides are measured by **tide gauges**, which help determining the **sea level fluctuations**.

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Can energy be generated from tides?

Yes, using **marine turbines** it is possible to generate **electrical power** taking advantage of the flux produced by the difference between high and low tides.

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Do tides affect fishing?

Yes they do, as a matter of fact it is important for fishers to be aware of the **tide cycles** in order to foresee the amount of fish that can be found in a certain area.

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The tide has risen 2m higher!
Your boat was moored at the dock and you didn't stop it on time, as a consequence it **sunks**.

You lose 1 point

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Enter the cave without passing through START.

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You parked your car for too long in a Mont San Michel area which is at risk. The tide washed it away.

You lose 2 points

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Exit the cave for FREE.

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You won a cruise to the Balearic islands. It leaves from La Spezia.

Run there.

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You inherit a gondola from a distant relative.

Go to Venice to collect it.

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Walk 3 steps back

...and good luck!

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During the Pororoça you won a surfing competition on the Amazon River.

Gain 2 points

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Your boat needs a new hull.

Pay 1 point

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You want to see a coral reef. Reserve a vacation in Fitzroy.

Pay 2 points

...and start playing!

