

**Ocean, an important regulator of
the world's climate
SNAKES AND LADDERS GAME**

**Box n°1
CHALLENGE**

In the Ocean, there are warm and cold currents.

On the planisphere, show me the warm currents and the cold ones.

It is very hot in Ecuador and very cold in the Poles.

Through the currents (global conveyer belt), Ocean distributes the heat all around the globe.

It is in permanent exchange with the atmosphere.



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Box n°2 QUIZ

Which human activities do reject greenhouse gases?

A- ride a bike

B - use your car

C - walking

Indeed, with the development of human activities (travel, food, heating...), the quantity of greenhouse gas, such as the CO₂, increases in the atmosphere.



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Box n°3 INFORMATION

Ocean absorbs approximately 25% of our CO₂ emissions by two manners:

- . physical (by simple dissolution)**
- . and biological (gases absorption by seaweeds and phytoplankton).**



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Box n°4 QUIZ

Which excess of heat does the Ocean absorb?

A- 93 %

B - 25 %

C - 50 %

If we reject more and more greenhouse gases, the temperature of the planet increases. Ocean can absorb 93% of this excess of heat, but not more...

Without it, there would be more storms, tornados, droughts...



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Box n°5 INFORMATION

**Ocean does a favor to us: it regulates
climates.**

Thank you the Ocean !



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Box n°6 CHALLENGE

Mime what we can make in order to limit our gas emissions, during our travels or at home.

It is up to us to limit our gas emissions: soft mobility, renewable energy (solar energy or wind energy).

Don't forget that Ocean brings us some more other benefits for our health!



