

Sea surface temperature measured by satellite

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Sea surface temperature

- Summary: Satellite measurements show how the sea temperature changed over time
- Main competence: Practice a scientific way of working
- Time: 45 min
- Vocabulary: temperature, satellite
- Experiment: yes
- Equipment: jar, infrared thermometer
- Objective: Understand how a satellite can measure the temperature of the ocean. Become aware of the evolution of the sea temperature over time and in a certain area.

Process

- Experiment: Measure the temperature by using an infrared thermometer, a jar of hot water and a jar of cold water.
 - This is to understand how a satellite measures the sea temperature.
- Observe the maps of our region of interest. (3 maps are available: current year, 10 years ago, 20 years ago)
- Observe the graph of our region of interest
- Conclusion: “We can see the temperature change in our area.”

Documents

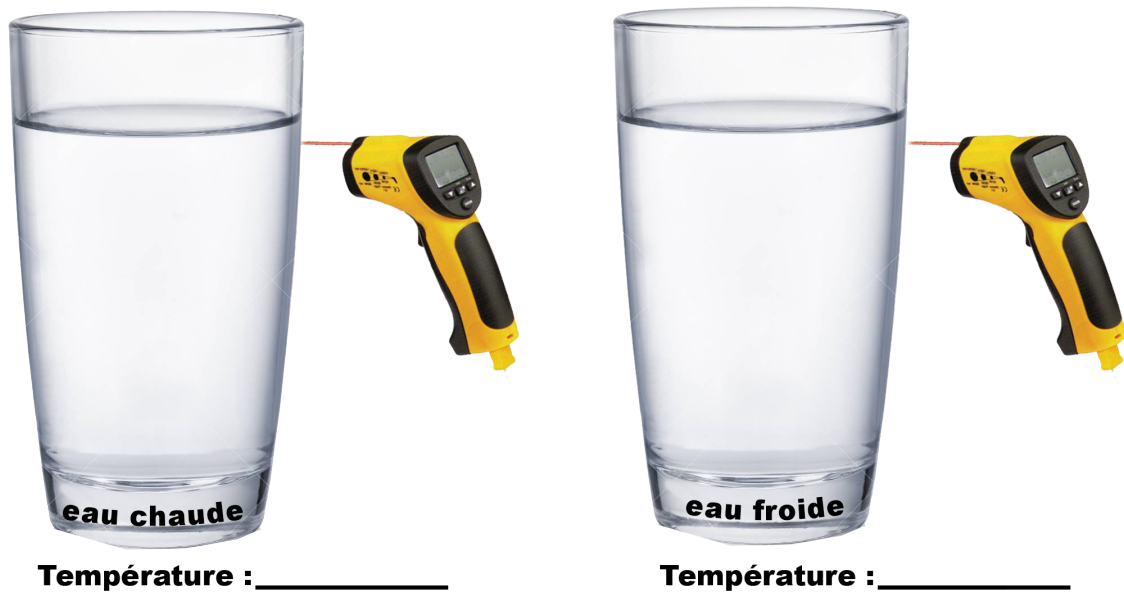
Print the following student worksheet)

Study the sea temperature with satellites

European satellites are constantly measuring the sea temperature. We imitated what they do.

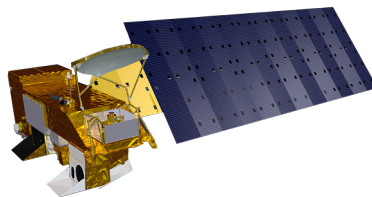
Experiment:

Task: Note down the temperature measured underneath each jar



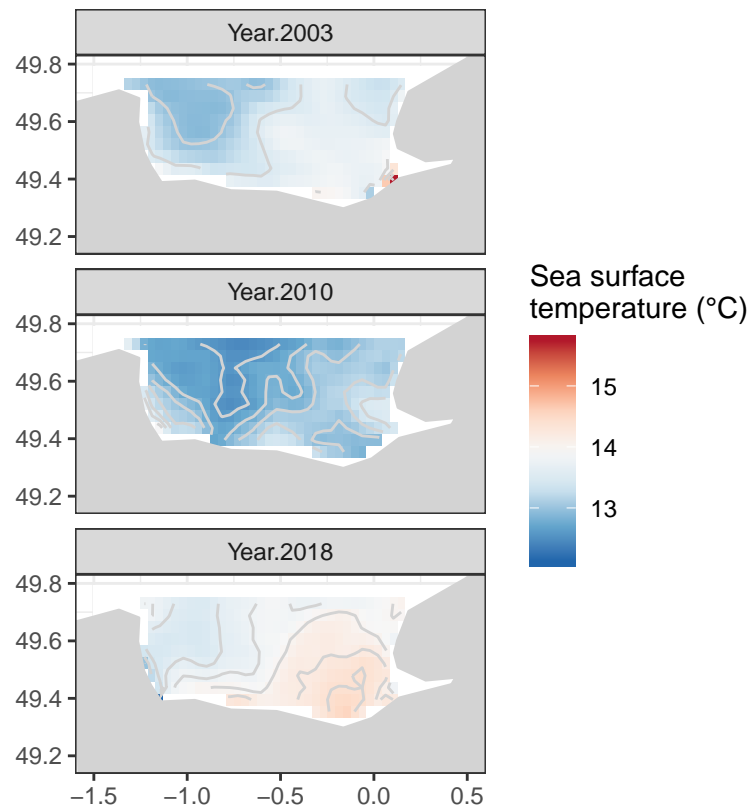
Satellite

Here is the satellite called MODIS that measures ocean temperature from space.

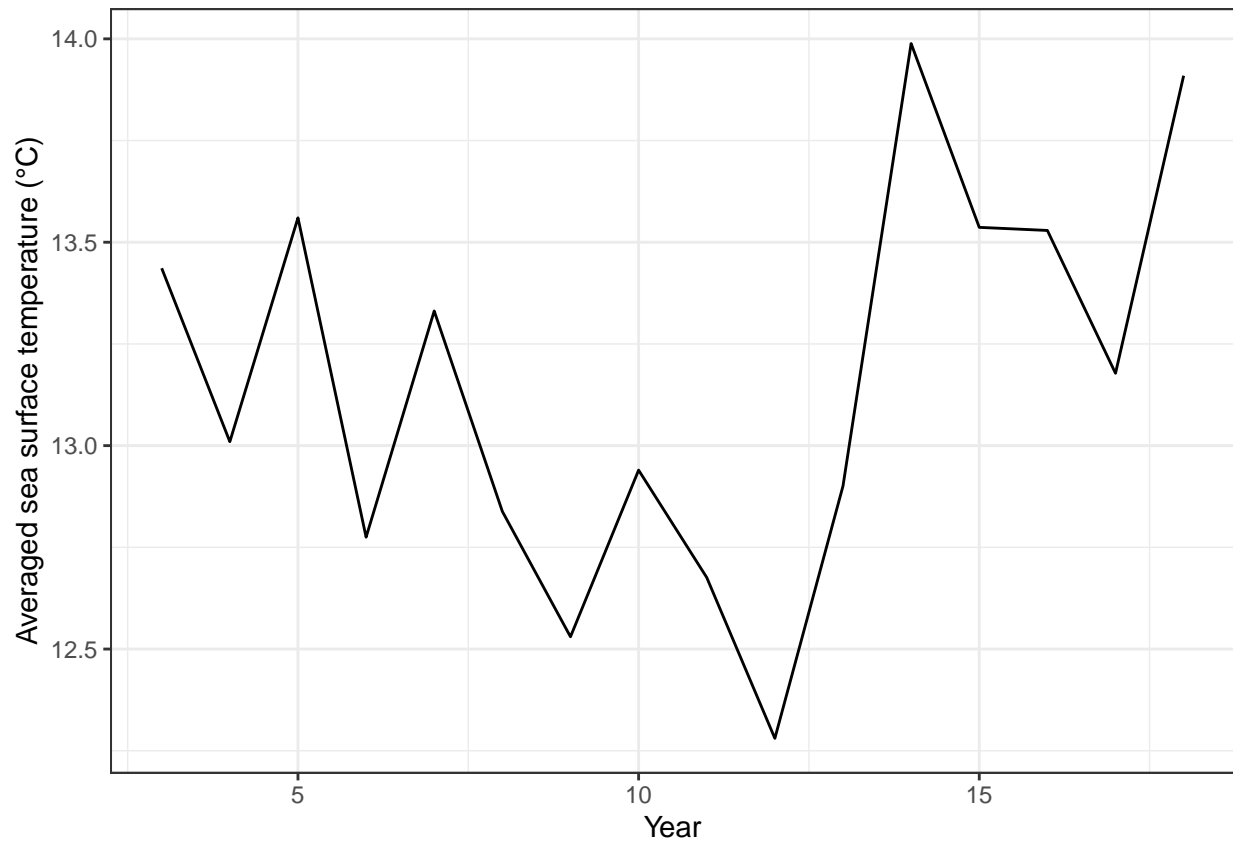


Map of the sea surface temperature of the study area

Name of the study area : _____



Plot of the temporal evolution of the annual sea surface temperature



Conclusion

Describe the temperature changes you see on the maps and the evolution of the average temperature of the area:

