

# 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

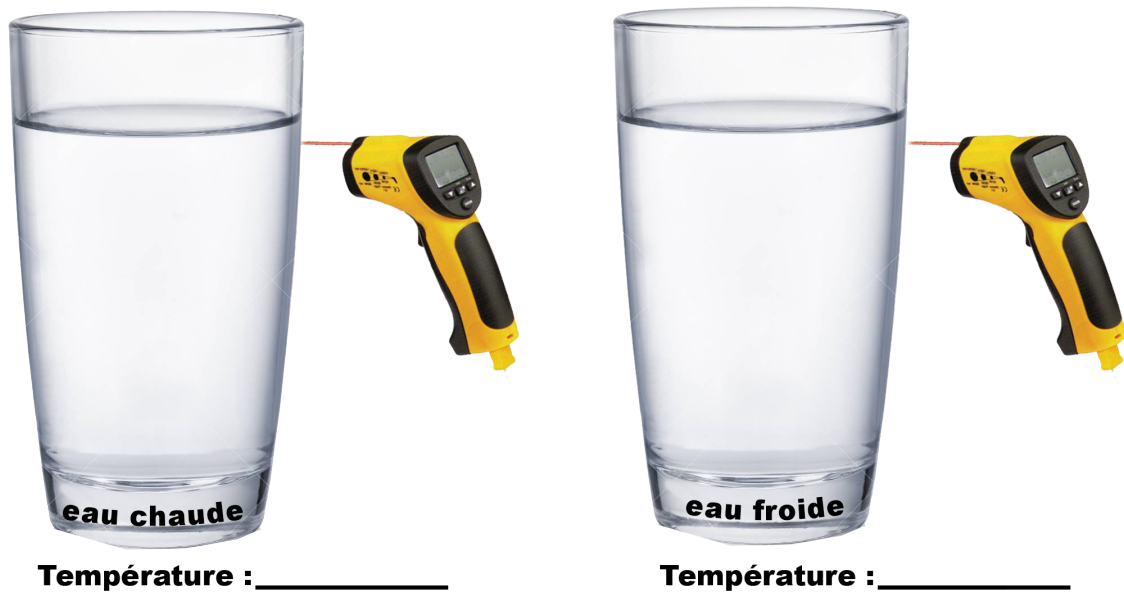
Print the following student worksheet)

## Study the sea temperature with satellites

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

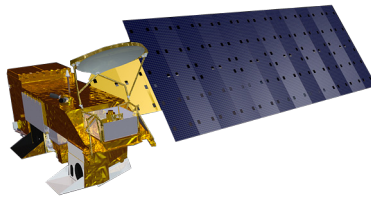
### Experiment:

Task: Note down the temperature measured underneath each jar



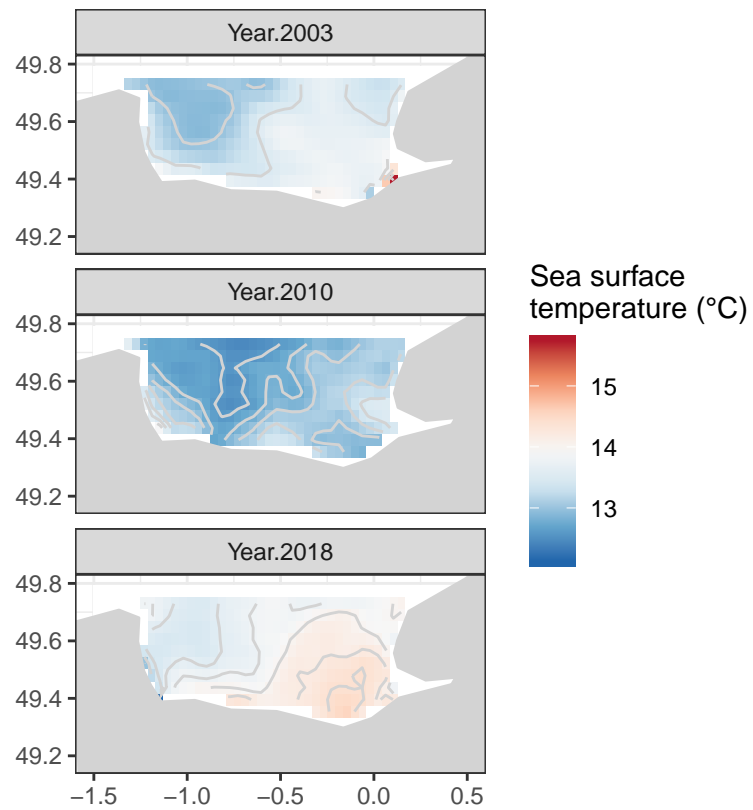
## Satellite

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

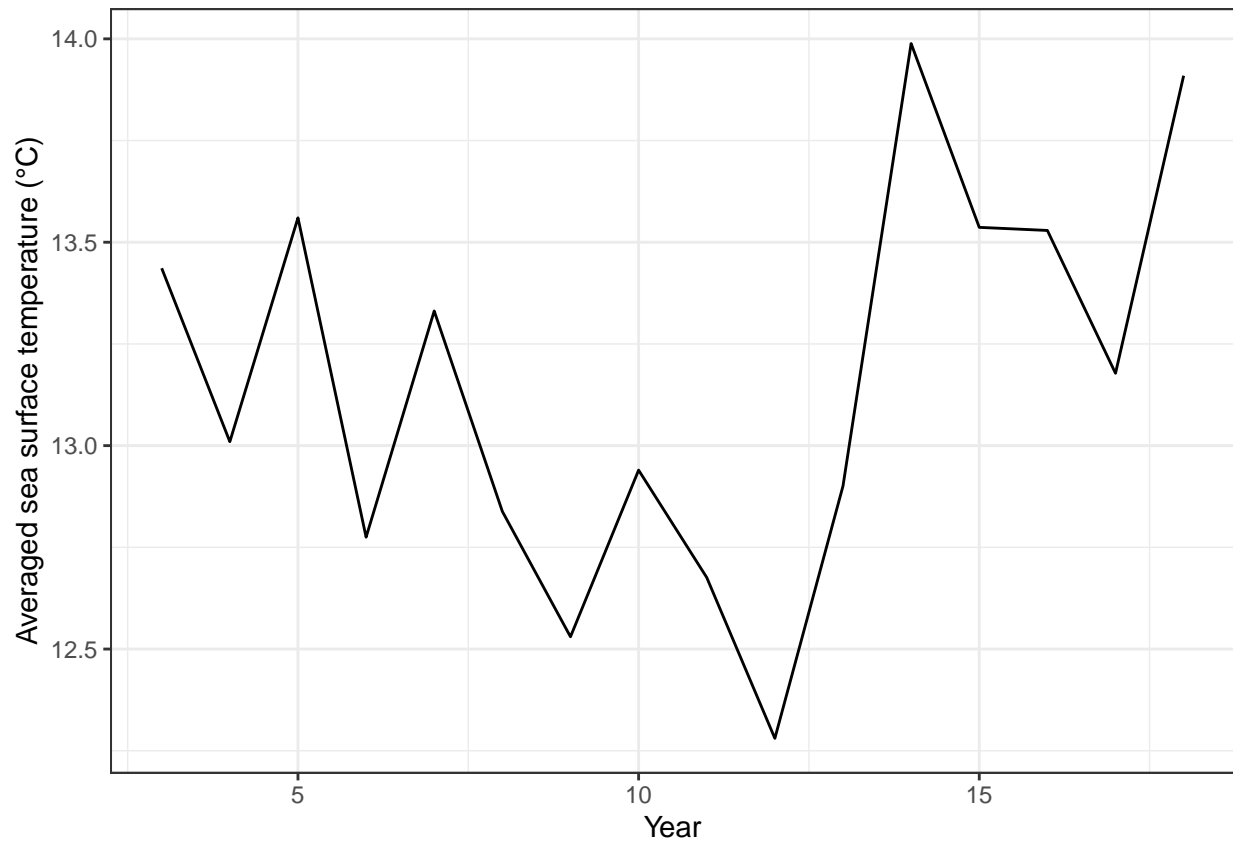


## Map of the sea surface temperature of the study area

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:

