



CLIMATE DETECTIVES 2020 – 2021



PLUVIOMETER

Os Detectores (Guest Team)
CENOM

RESEARCH QUESTION

A lot of rain in one day and other days without rain

SUMMARY OF PROJECT

Large amounts of rain at any given time can flood the streets. Sometimes it happens on sunny days when a storm occurs at the end of the day. How can we know how much it rained these days?

<https://padlet.com/annesnunes2010/2cwazjsf251b3o4h>

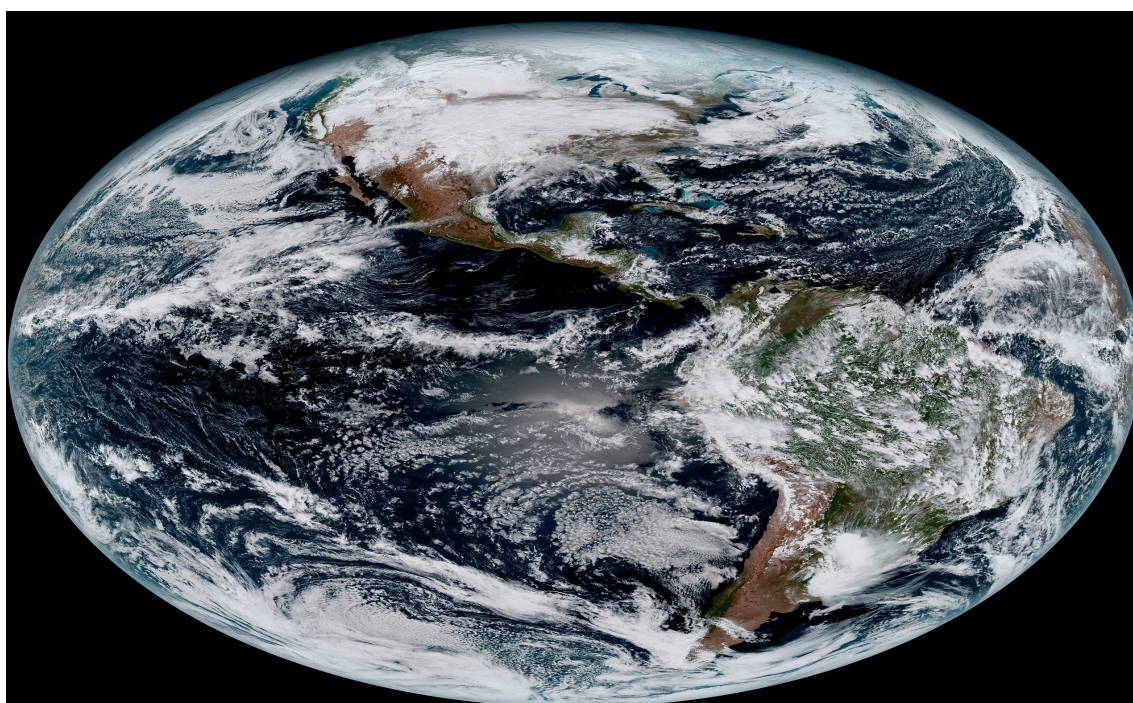


Figure 1: Earth

MAIN RESULTS

The rain gauge aims to monitor the amount of rain at a certain time. In order to record the volume of rain each day and to know which region is most likely to have many floods. This monitoring will be of great importance, because through photographs and records of centimeters of rain over the days, we will be able to know its monthly quantity and we will also be able to compare the locations with more rain and less rain.

Each student in his home will be able to build, under the guidance of the teacher, a portable rain gauge that will be used on rainy days, being monitored, photographed and recorded the measurements of the amount of rain on a given day. The results can be compared with the measurements of the other team members.

"It rained a lot at my house today! Did it rain at your house today?" Everyone at home will be able to help, each team member will be responsible for building and monitoring the amount of rain in your home. Team members will exchange information and will be able to prepare a photographic report of their measurements and will be able to compare the amount of rain in each neighborhood and find out how deforestation and the location of rains can be differentiated by comparing the vegetation and climate of the place. Members live in distant regions and this will be a major factor in verifying these differences.



Figure 2: Climate Detectives

ACTIONS TO HELP LESSEN TO THE PROBLEM

Also using the site: <https://apps.sentinel-hub.com/eo-browser/>, groups can search for satellite images from several days and search for known and recorded days when it rained a lot, and check if there are data or important information that can be collected (for example, cloud cover / extension area).

<https://padlet.com/annesnunes2010/2cwazjsf251b3o4h>

<https://padlet.com/robertamarley/jx8begzo6ua7qzog>

Figure 3: