




CLIMATE DETECTIVES



## CILIMATATE SKONI AND FIRE

### 1 Profile

 3highschool gerakas

 ΓΕΡΑΚΑΣ - Greece



### 2 Investigation Highlights

Two years ago, in August 2022, a fire occurred in our area. Can we observe the change to the nature of our area with the help of satellites? Furthermore, can we simultaneously monitor dust? We often deal with dust thickly. Dust that blurs our photos, dust that makes cars and courtyards of houses not clean makes visibility in the area difficult.

So we decided to observe the dust. Our team will observe dust episodes and record them almost daily from October to March. We will get dust data from meteo.gr (National Observatory of Athens). They will be divided into 4 categories 0: no dust at all 2: low 4: medium high 6-7 very high. Data is stored in a shared Excel sheet. On the days with dust we will keep the meteo.gr (National Observatory of Athens) dust charts, and we will observe the area from the EO Browser paying attention to the changes that occur. At the end we will show diagrams per month with the dust days.

2) Two years ago (August 2022) a fire broke out in our area. So part of our research was to observe the change in the nature of our area with the help of satellites. We will try to make a timelapse observing the change of the area from EO Browser before and after the fire. or local dust levels and investigate any potential correlation between these phenomena?



### 3 Main Results

1) From the chart it appears that the dust episodes are very frequent, but of small size

2) We made a timelapse observing the change of the area from EO Browser before and after the fire of August 2022.



### 4 Actions Taken

Climate change is a complex issue that necessitates thorough examination and heightened awareness to effectively tackle it. In the region, coordinated reforestation initiatives are underway. We expect to see the difference in green after the reforestation in a year from now.

