

Looking at Earth from space

Satellites orbit around the Earth and give us a different view of our planet. They look down on Earth from space and they can see the whole planet as they orbit around.

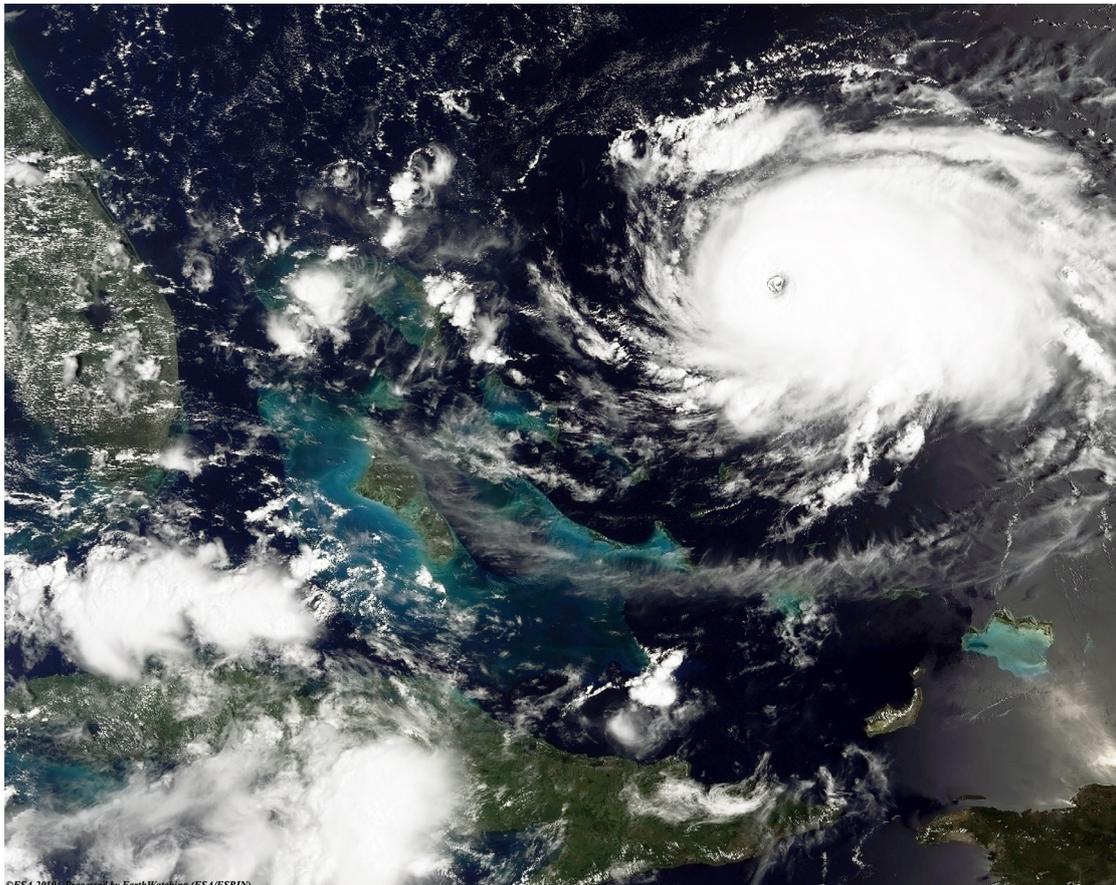
Satellites give us important information about how our environment changes over time so we use them to make weather forecasts and learn about climate change.

It's your turn to be a scientist and explore the Earth from space! The Sentinel satellites monitor the land, the oceans and the atmosphere. Look at the pictures below, taken by the Sentinels, and circle the correct answer for each the question.

1. What can see you see in this picture?

- a. Mountain
- b. Hurricane
- c. Ice cap

31st August 2019

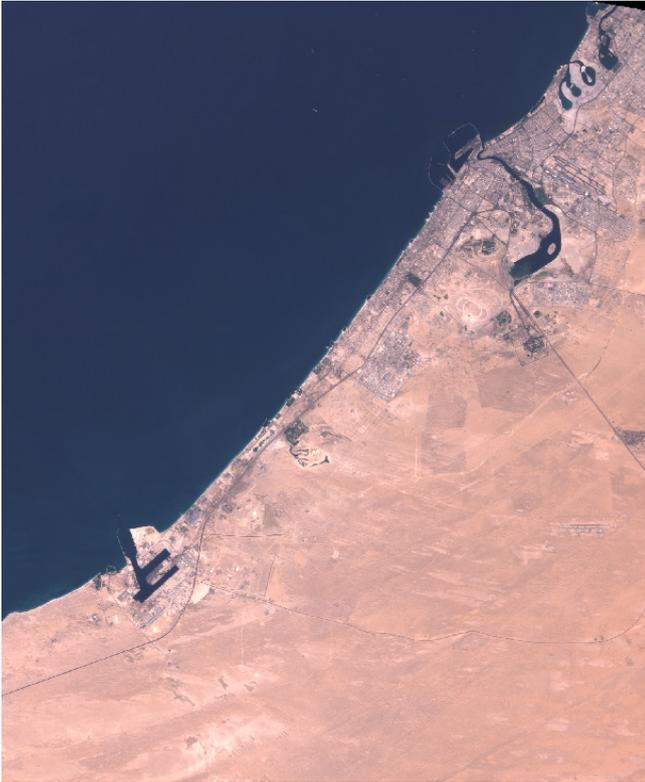


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2. Spot the difference in these images of Dubai. What has changed over time?

a. There are now more man-made islands.

b. The cities have become smaller.



22nd September 1999



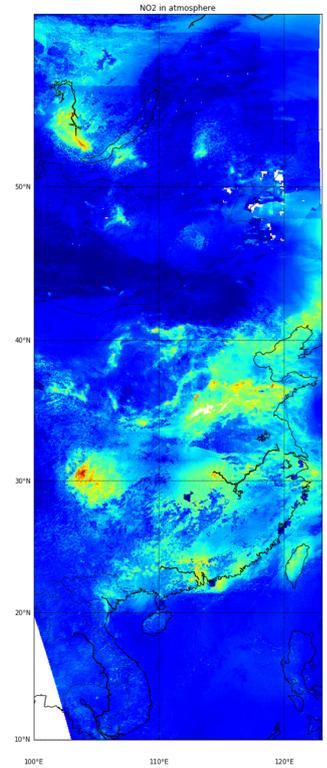
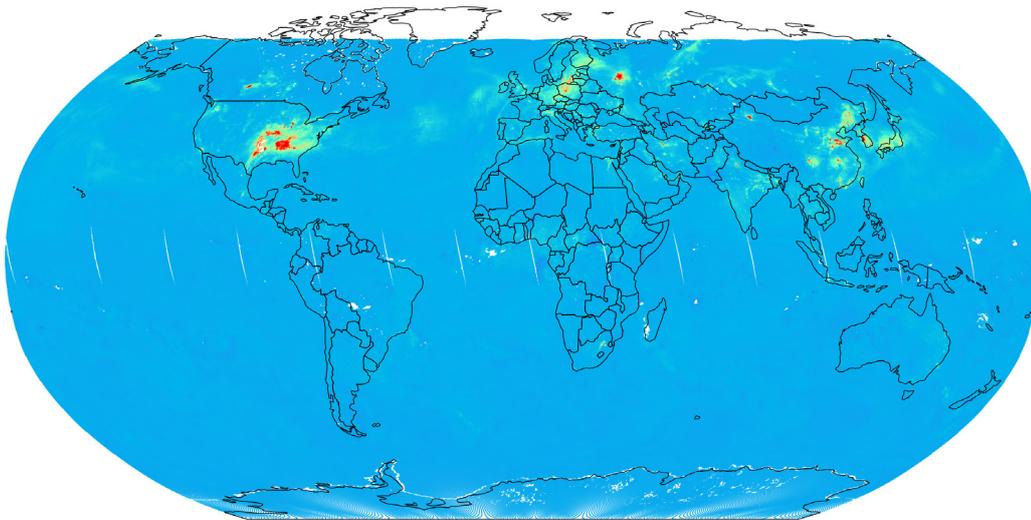
21st August 2021

3. These images show the amount of air pollution before and during the lockdown due to the Covid-19 pandemic. Green and red areas show places with more pollution. Was there more pollution before or during lockdown?

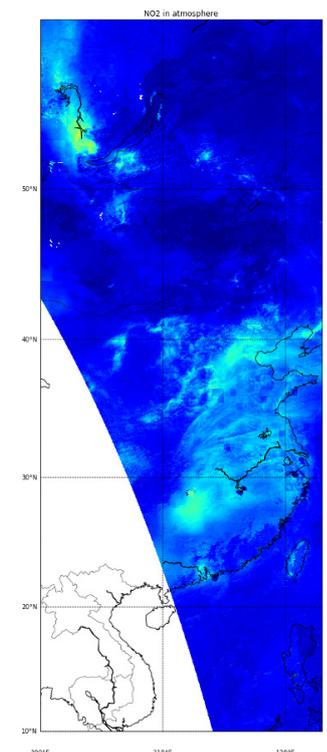
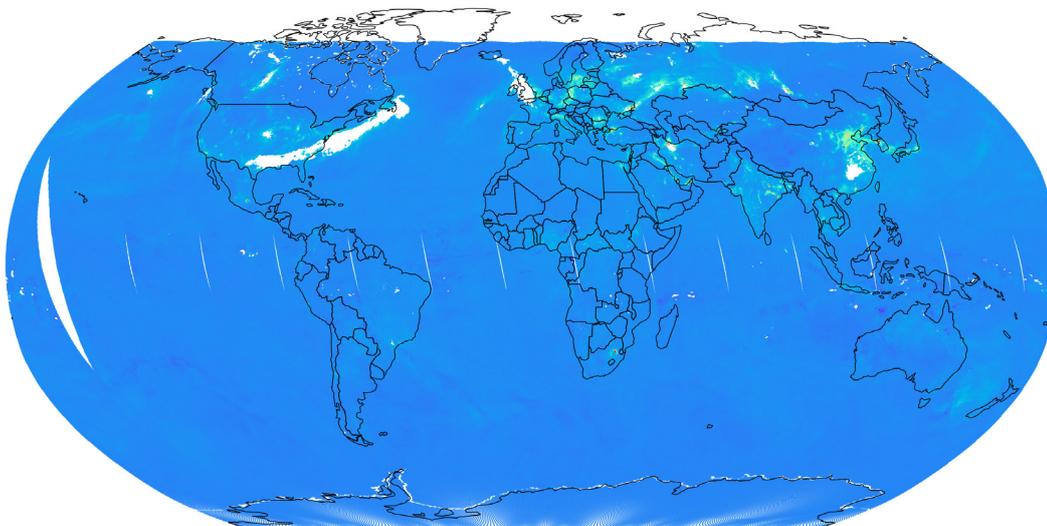
a. More pollution before lockdown.

b. More pollution during lockdown.

Before



During

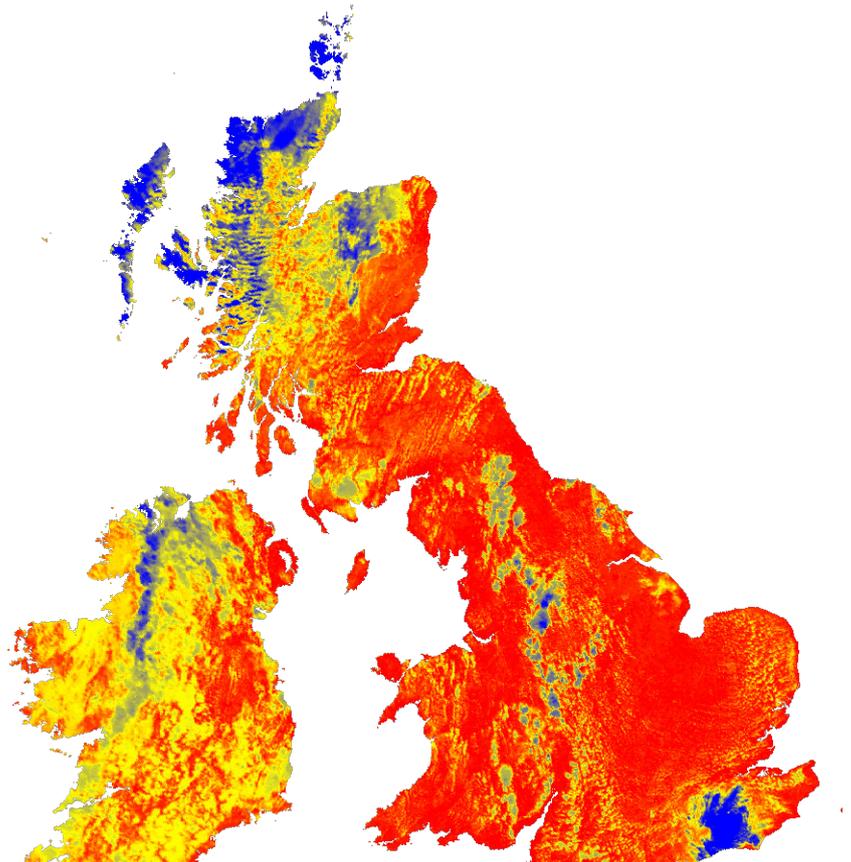
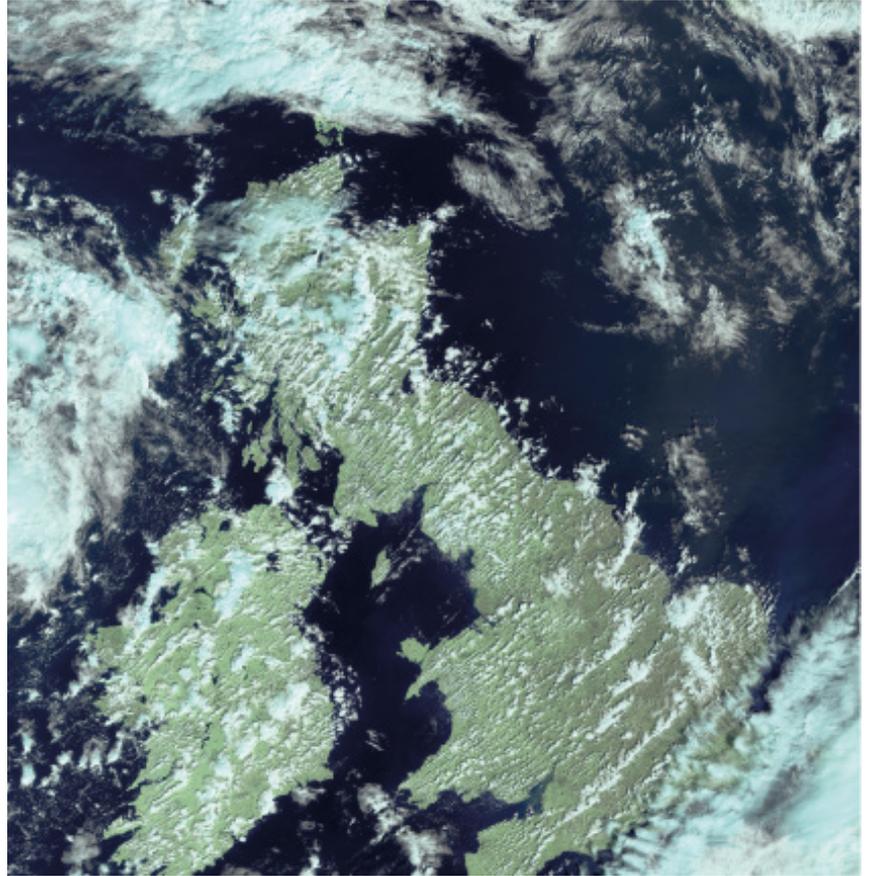


Bonus question: Why do you think the amount of air pollution changed?

4. These images show the UK from space. The first one is a normal image on a cloudy day. The second one is a heat map, showing how hot or cold it is. In the heat map, what colour is most of the land, where it is hottest?

a. Blue

b. Red



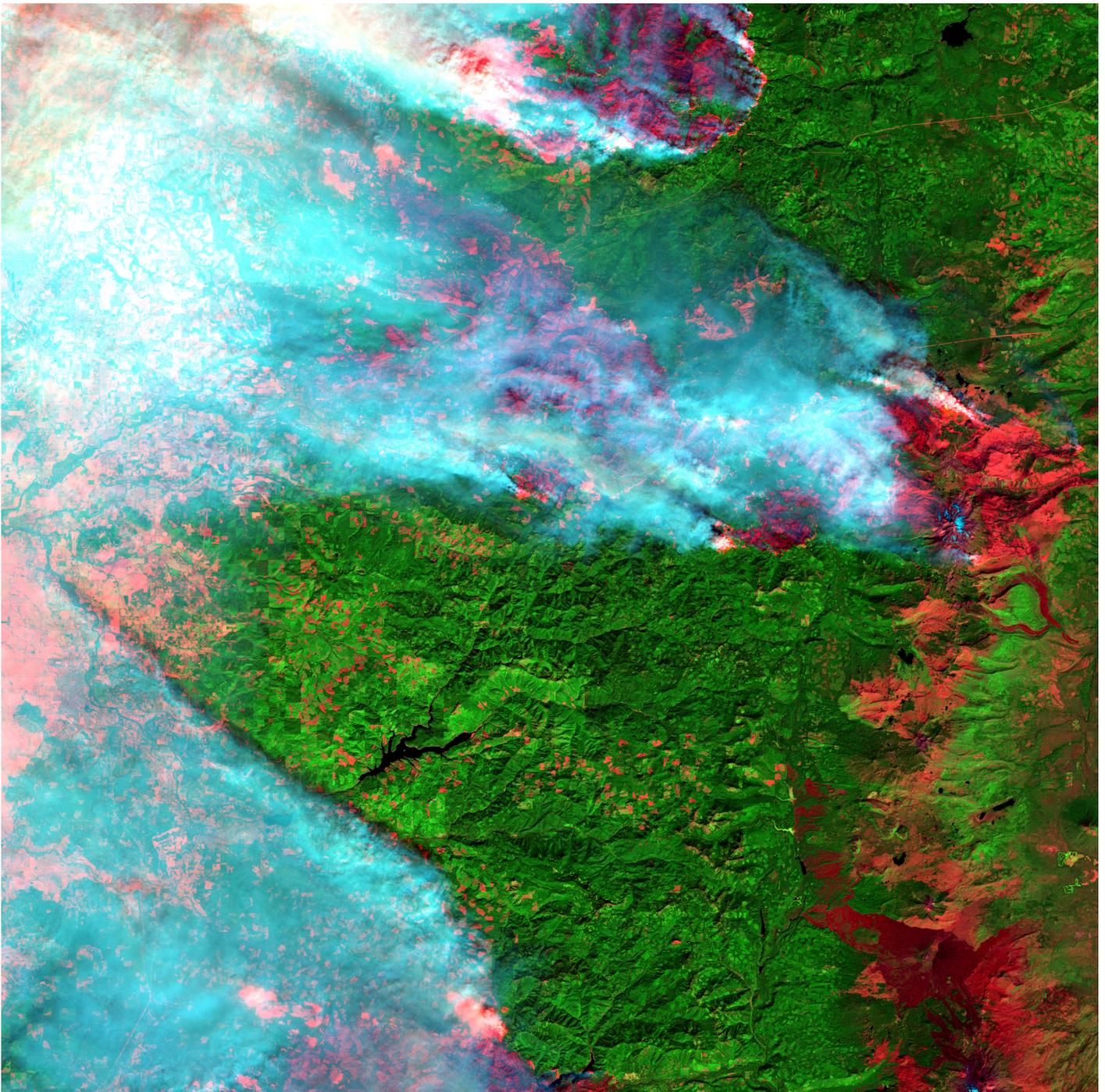
4th August 2021

5. What can you see in this picture?

a. A volcano

b. A snow storm

c. A wildfire in a forest



9th September 2020