

How to Use EMIT the ISS Space Camera to protect the World

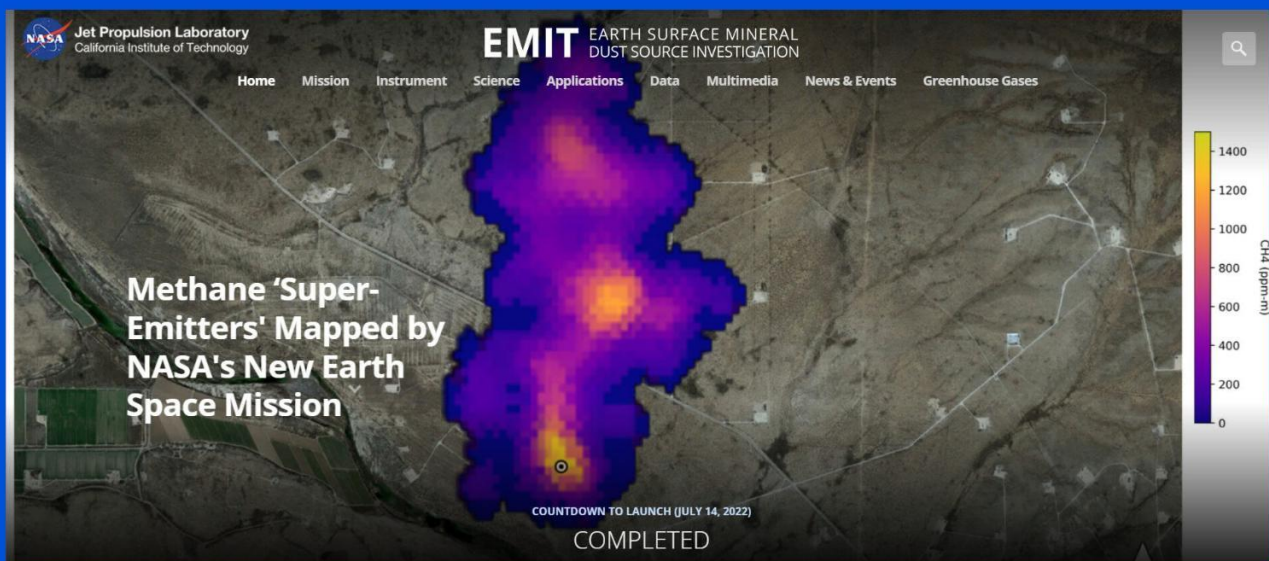
OFFICIAL SCHOOL LAB



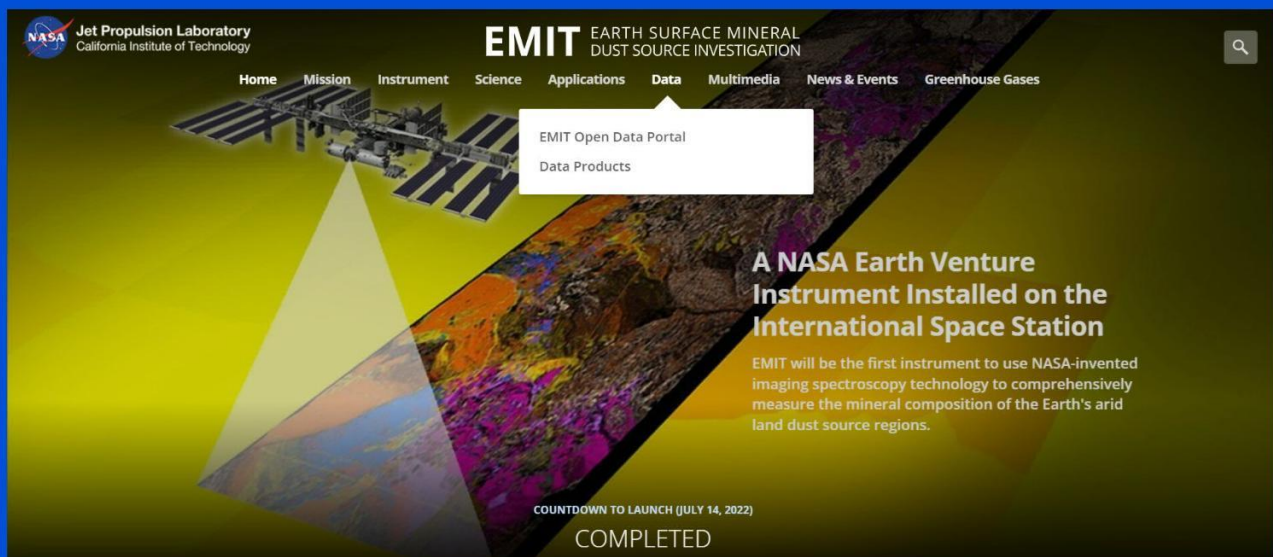
The Earth Surface Mineral Dust Source Investigation (EMIT) is an Earth Ventures-Instrument (EVI-4) Mission to map the mineral composition of arid dust source regions via imaging spectroscopy in the visible and short-wave infrared range. EMIT generated images are easily viewable on the site <https://earth.jpl.nasa.gov/emit/> Using EMIT data you can be able even to track greenhouses gasses, their size and where they came from.



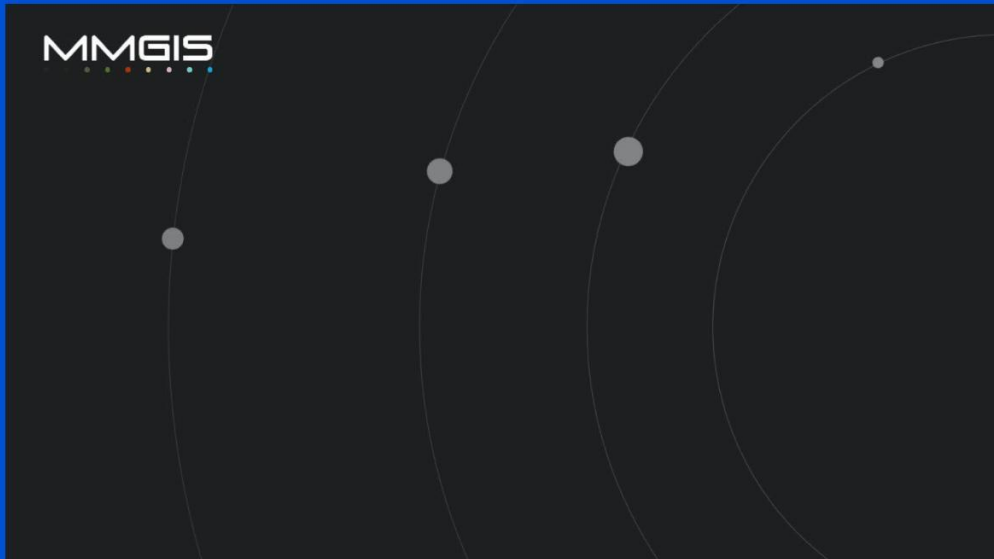
1) Search EMIT site, it will show up like this:



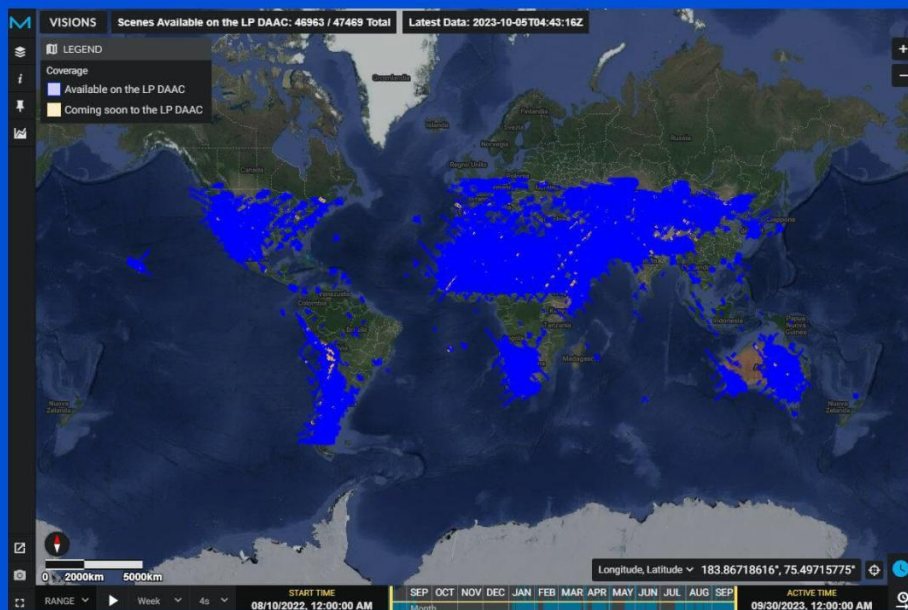
2) Place your mouse on Data and click on EMIT Open Data Portal:



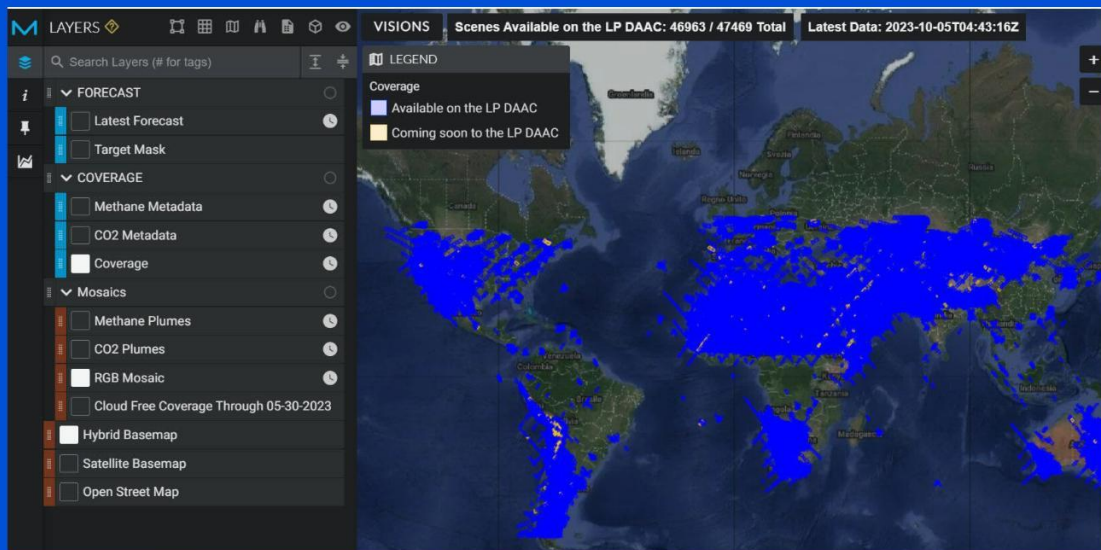
3) Wait the loading screen:



When it is loaded, you are going to see Earth map:



4) Click on Layers, those options will show up:

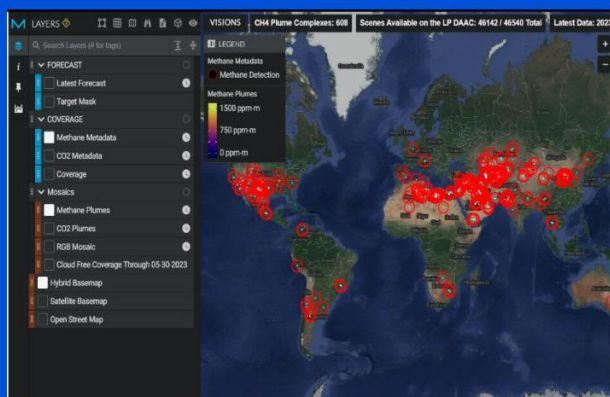


5) Uncheck Coverage and RGB Mosaic.

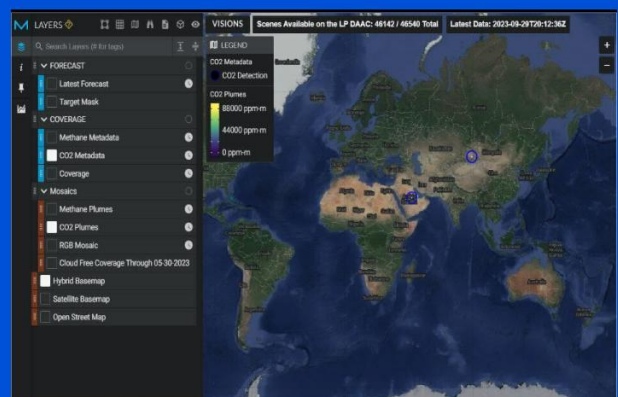
In order to see unusual methane (CH₄) emissions, check Methane Metadata and Methane Plumes.

In order to see unusual carbon dioxide (CO₂) emissions, check CO₂ Metadata and CO₂ Plumes.

Circles show where those emissions are located.

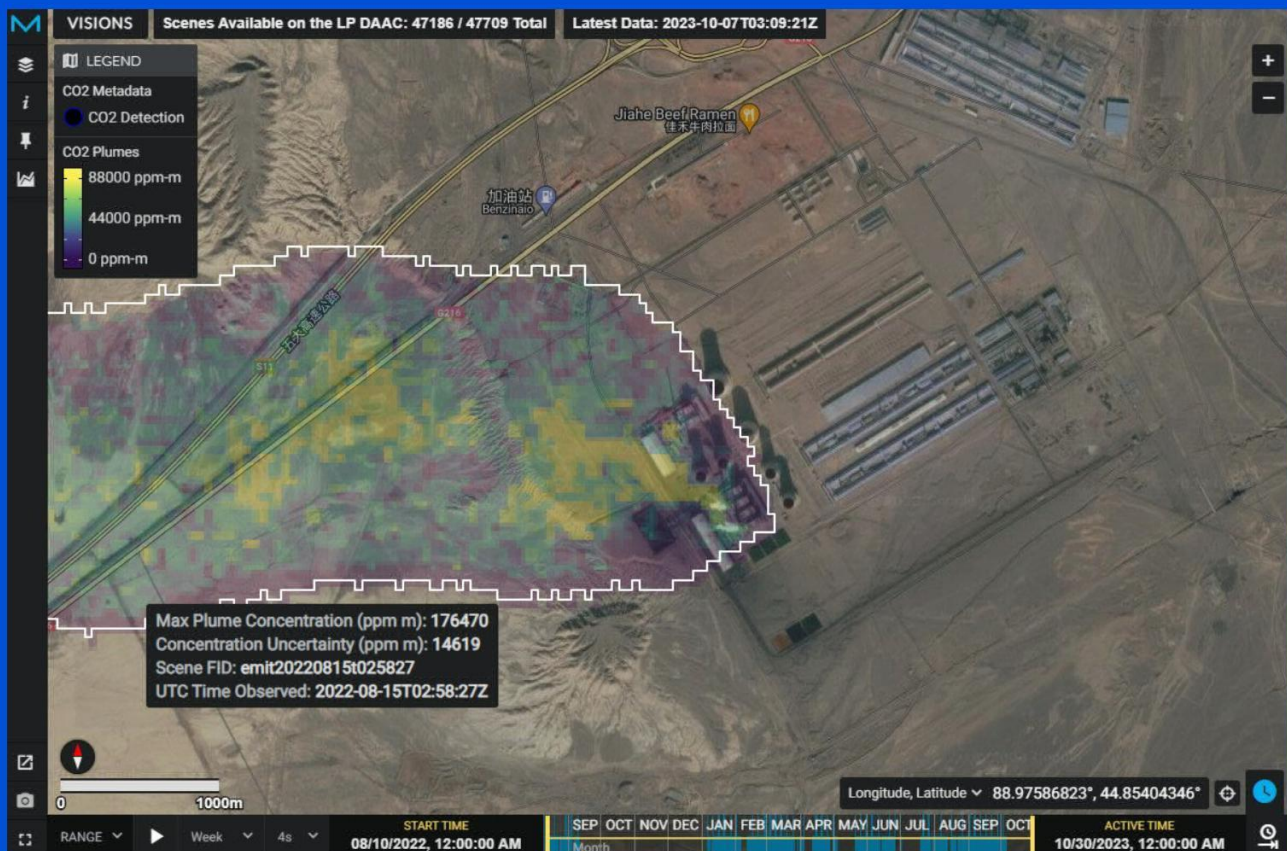


METHANE



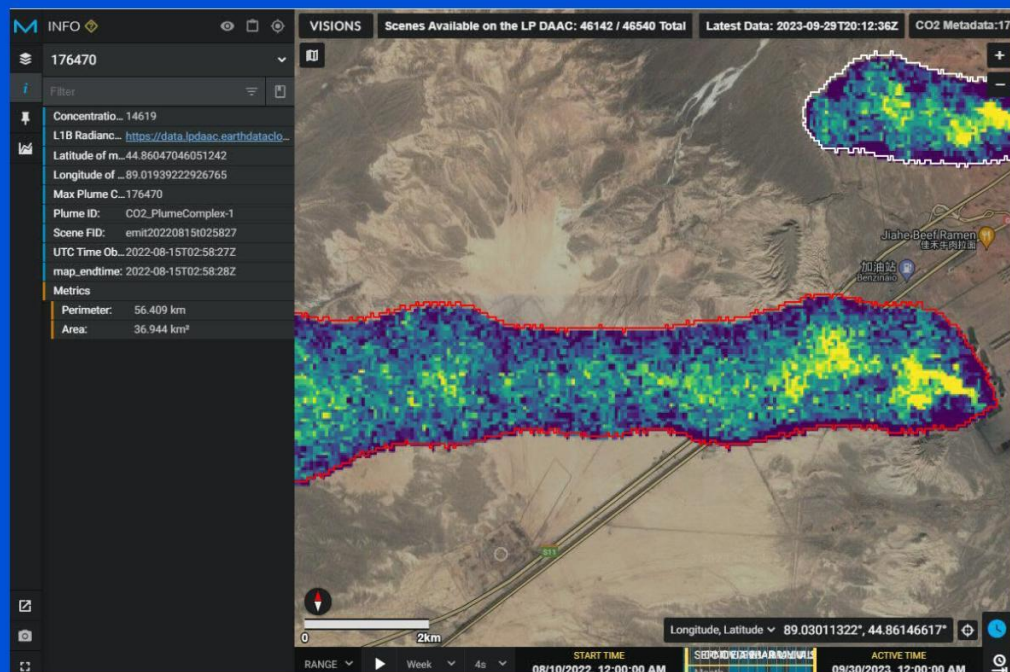
CO2

6) Zoom to see where those area are found, for example where CO₂ is located, and if you place your mouse on the cloud you will see its concentration and when it has been seen:



7) Click on the “cloud” and then click on info, you will see the emission details: position, concentration and its size.

For example, this one is as big as **5000 football fields!**



We are EMIT-Visions ISS Copilot TEAM and our goal is to raise awareness about greenhouses gasses and how to use the NASA open-source resources to investigate them.

www.emit-vision-iss-copilot.com

contact us isscopilot@gmail.com

