



Science on a Sphere Explorer

Tour - Monster Saharan Dust Plume

Debrief



SOS Explorer on your device:

- Be sure the SOS Explorer app is on one of your mobile devices. It is available for phones, tablets or Chromebooks.
- You can search “SOS Explorer” in an app store or follow the link on the Science on a Sphere website: https://sos.noaa.gov/SOS_Explorer/
- Launch the app, open up the dataset window (green arrow on the left) select “Tour - Monster Saharan Dust Plume,” go through the whole tour, complete the following questions.

Name

Class

Date

Science on a Sphere is a presentation tool that was developed at NOAA in Boulder. The SOS team recently put together this app version as a free resource. We are excited for you to check it out!

Notice the green arrows that can show or hide the menu of datasets. You can see a menu of “All” datasets or look at different categories, such as “Land” or “Air”.

What did you learn?

If you need to, take the tour again before answering the next few questions.

- In your own words, what is the Saharan Air Layer (SAL)?
- What are some good effects that happen as a result of SAL?
- How do we know about SAL?

Learn more about the science behind it...

Go to <https://www.aoml.noaa.gov/hurricane-research-division/>

- Click on one or more of the Hurricane Research Division projects at the Atlantic Oceanographic and Meteorological Laboratory and describe something in detail that interests you.

Dust - Good or Bad for Hurricanes?

Go to <https://earthdata.nasa.gov/learn/sensing-our-planet/saharan-dust-versus-atlantic-hurricanes>

Read the article, then explain how Saharan Dust both help and hinder tropical storms.

Write down words that you don't understand ...

either ask your teacher or look them up later.