My NASA Data - Mini Lesson/Activity

Exploring Energy and Matter with Chlorophyll Data: Student Activity

Student Directions

Virtual Teachers: Make a copy of the Google Form of your choice so that you may assign it directly from your Google Drive into your Learning Management System (e.g., Google Classroom, Canvas, Schoology, etc.). Do you need help incorporating these Google Forms into your Learning Management System? If so, read this Guide to Using Google Forms with My NASA Data.

Review the NASA video below and answer the following questions. This video shows biosphere data over the North Atlantic Ocean as a time series animation displaying a decade of phytoplankton blooms.

1. How can you tell what season is showing in the video? Describe how can you tell what season is showing in the video. What do you look for as indicators of change?
2. Describe what the dark blue areas of the ocean represent.
3. Describe what the greens and reds in the ocean indicate.
4. Where do you find the largest concentration of phytoplankton? Explain.

 Teachers, these mini lessons/student activities are perfect "warm up" tasks that can be used as a hook, bellringer, exit slip, etc.

 Teachers who are interested in receiving the answer key, please contact MND from your school email address at larc-mynasadata@mail.nasa.gov. We verify that requestors are teachers prior to sending access to the answer keys as we’ve had many students try to pass as teachers to gain access. To receive the keys please provide the following:

  1. The link to the school/institution’s teacher directory where you are employed so we can verify that you are a teacher
  2. Ensure that the school email address is provided in your response as we are unable to send to personal email accounts

**Access and Explore Data**

- Chlorophyll Concentration (milligrams per cubic meter)