My NASA Data - Mini Lesson/Activity

Analyzing Cloud Effects on Earth’s Energy Budget: Student Activity

Student Directions

Overview:

This lesson is designed to help students analyze the interaction between clouds and Earth's incoming and outgoing energy.

Clouds affect Earth's climate in two major ways. First, they are an essential part of the water cycle. Clouds provide an important link between rain and snow, oceans and lakes, and plants and animals. Secondly, clouds also have an important (yet complicated) effect on Earth’s temperature because of their complex role in the Earth's radiation budget. *Clouds can both cool down and warm up the temperatures on Earth.* Let's explore this further...

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