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## My NASA Data - GLOBE Connections

### GLOBE Earth System Overview



[GLOBE](#) stands for Global Learning and Observations to Benefit the Environment. It is a program sponsored by the U.S. National Aeronautics and Space Administration (NASA) with support from the National Science Foundation (NSF), National Oceanic and Atmospheric Administration (NOAA) and Department of State. GLOBE connects students, teachers, scientists, and citizens from different parts of the world (over 120 countries) to conduct real, hands-on science about their local environment and to put this in a global perspective.

My NASA Data and the GLOBE program complement each other well. My NASA Data provides educational resources and data which support student exploration of NGSS aligned Earth science phenomena. GLOBE provides opportunities for students to collect their own data related to these phenomena using protocols. A protocol is a standard procedure for collecting and entering data. Each protocol also has supporting grade level-appropriate interdisciplinary learning activities. These protocols and activities have been developed by the scientific community and validated by teachers.

GLOBE resources are organized by protocol rather than phenomena. Therefore My NASA Data provides GLOBE Connections which pull together GLOBE resources by sphere and phenomena. Connecting in this way facilitates exploration of phenomena in a variety of ways and includes components to make it locally relevant for students.

For Earth as a System, GLOBE has organized protocols into bundles to explore different areas from a system perspective. These bundles and learning activities can provide hands-on opportunities for students to explore My NASA Data phenomena from a system point of view.

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The GLOBE Protocol Bundle connections available through My NASA Data are:

- [ENSO](#)
- [Mosquito](#)
- [Ocean](#)
- [Rivers and Lakes](#)
- [Soil](#)
- [Urban](#)
- [Water Cycle](#)
- [Water Quality](#)
- [Weather](#)

Learning activities are developed and tested by teachers and scientists. They provide interactive opportunities to explore the concepts related to the protocols. Each My NASA Data phenomenon has been aligned with various GLOBE protocols and learning activities. They can be found in the GLOBE connections section of My NASA Data for each sphere. Additional learning activities produced by GLOBE are found in the [Earth as a System Learning Activities Overview document](#).

There are mechanisms for students to participate in data collection campaigns, submit research reports and participate in the [International Virtual Science Symposium](#) and [Student Research Symposia](#).