GLOBE as a MND Resource

Background on GLOBE:

The Global Learning and Observations to Benefit the Environment (GLOBE) Program is an international science and education program that provides students and the public worldwide with the opportunity to participate in data collection, develop an understanding of the scientific process, and contribute meaningfully to our understanding of the Earth system and global environment. Announced by the U.S. Government on Earth Day in 1994, GLOBE launched its worldwide implementation in 1995.

GLOBE Vision: A worldwide community of students, teachers, scientists, and citizens working together to better understand, sustain, and improve Earth's environment at local, regional, and global scales.

GLOBE Mission: To promote the teaching and learning of science, enhance environmental
literacy and stewardship, and promote scientific discovery.

GLOBE and My NASA Data:

The GLOBE Program is structured around “Earth as a System”, comprised of the various spheres and the interactions that occur within and among those spheres. GLOBE scientists have developed protocols to ensure consistency in the data that is being collected within each of the spheres (Atmosphere, Biosphere, Hydrosphere, and Pedosphere or Geosphere). In addition, scientists and educators have worked together to develop a series of learning activities that support the content associated with the protocols. My NASA Data and its sphere-based phenomena approach align closely with the concepts found within the GLOBE Program and can be used in correlation to support the overall vision and mission of GLOBE.

The MND team has worked in partnership with GLOBE Mission Earth to develop a set of Learning Progressions that align both GLOBE and NASA resources with the Next Generation Science Standards (NGSS).

- Atmosphere:
  - K-2
  - 3-5
  - 6-8
  - 9-12

- Hydrosphere:
  - K-2
  - 3-5
  - 6-8
  - 9-12
• Biosphere:
  ◦ K2
  ◦ 3-5
  ◦ 6-8
  ◦ 9-12

• Pedosphere (part of the Geosphere):
  ◦ K2
  ◦ 3-5
  ◦ 6-8
  ◦ 9-12

Document Resources

• Atmosphere Learning Progression K-2

• Atmosphere Learning Progression 3-5

• Atmosphere Learning Progression 6-8

• Atmosphere Learning Progression 9-12

• Hydrosphere Learning Progression k-2

• Hydrosphere Learning Progression 3-5