Data to Understand Changing Ecosystems



What is NEON?

National Ecological Observatory Network (NEON) is a long term, continental-scale observation facility funded by the U.S. National Science Foundation and operated by Battelle.

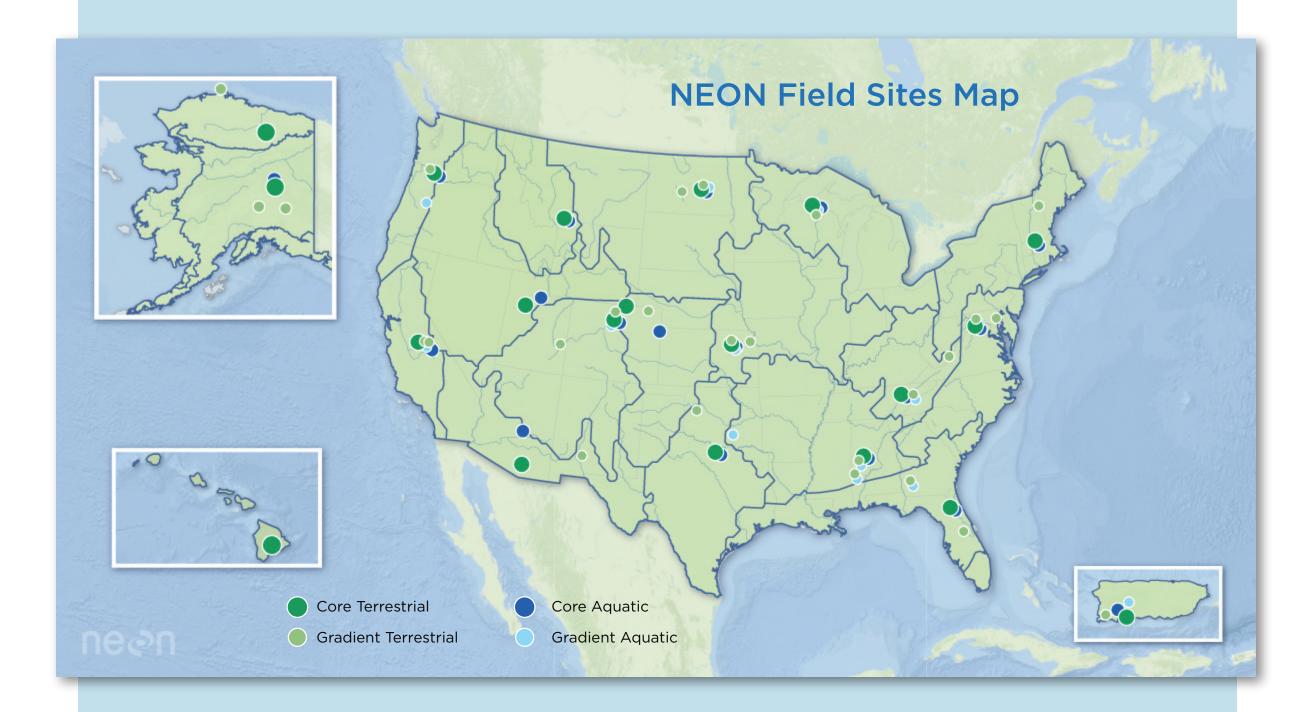
NEON provides standardized, consistent data at unprecedented spatial and temporal scales, as well as, resources and infrastructure for the scientific community. The Observatory provides open access data and archival samples and is planned to collect data for 30 years. NEON Infrastructure may also be used to additional research studies through the NEON Research Support Services.

Strategically placed field sites

Understanding the changing health of an ecosystem is a complex and costly challenge. NEON is designed to collect standardized data at 81 field sites across the U.S. that will quantify ecological change over time.

Field sites are strategically located in many different types of terrestrial and aquatic ecosystems enabling scientists to study and forecast ecological change over time at the local, regional and continental scales.

Terrestrial field sites and aquatic field sites are often colocated to support understanding of linkages across atmospheric, terrestrial and aquatic ecosystems.



Freely accessible big data

NEON empowers a large and diverse user community to tackle new questions at scales not accessible to previous generations of ecologists. Freely accessible data and learning resources are available to download online. Researchers can also request to use NEON infrastructure for additional ecological studies.

www.NEONScience.org







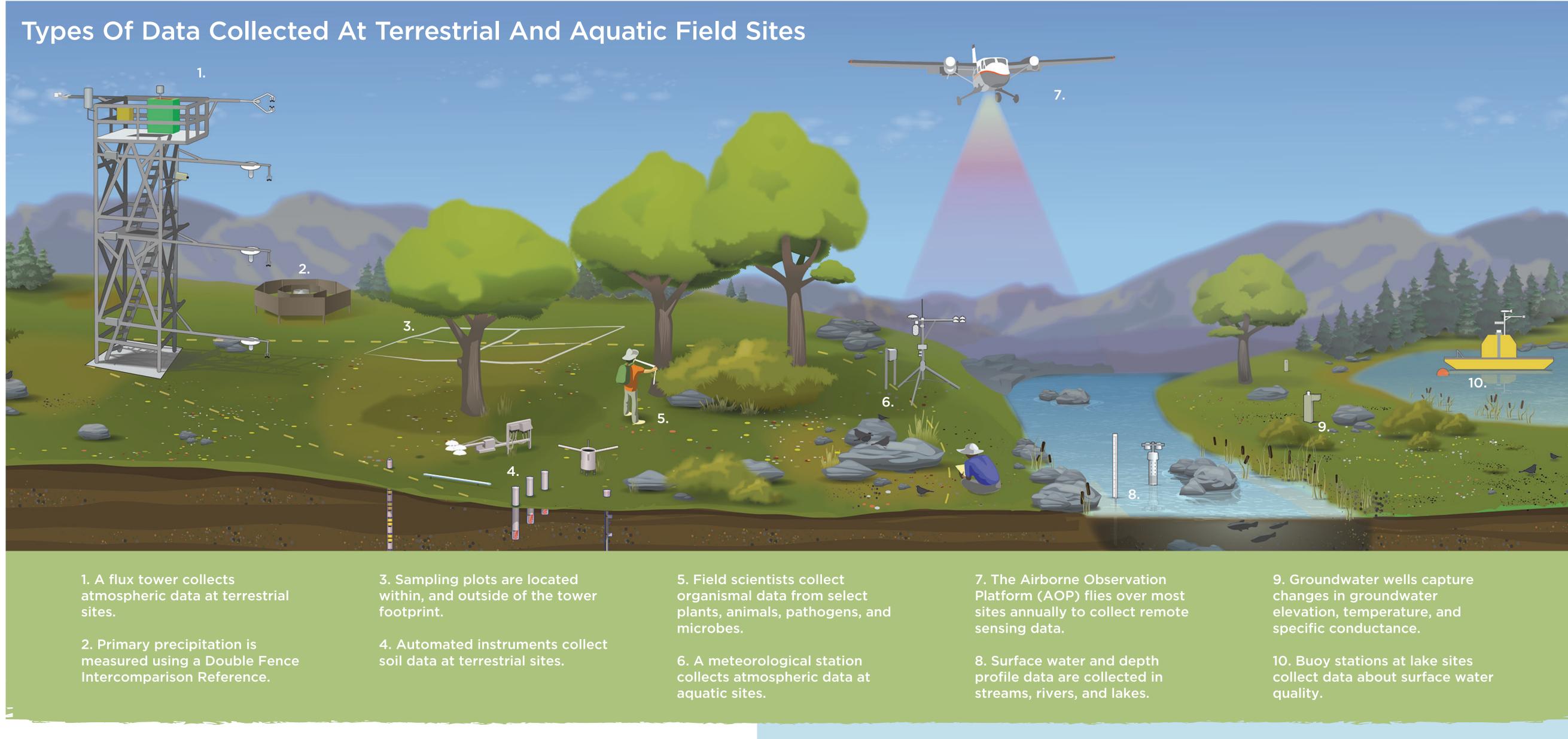


A variety of standardized methods are used at NEON sites to collect long-term ecological data

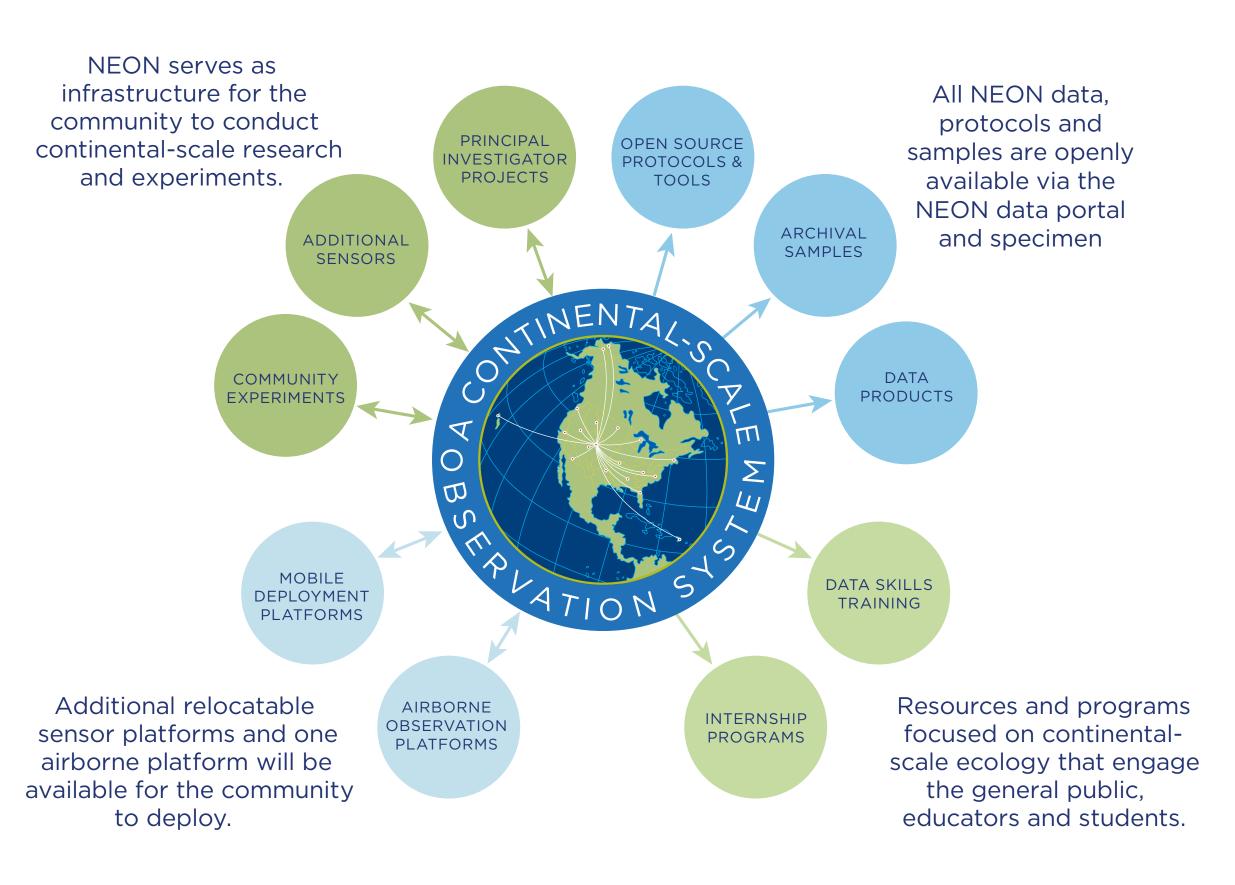


Types of data collection include:

Automated instruments
Observational sampling
Airborne remote sensing surveys

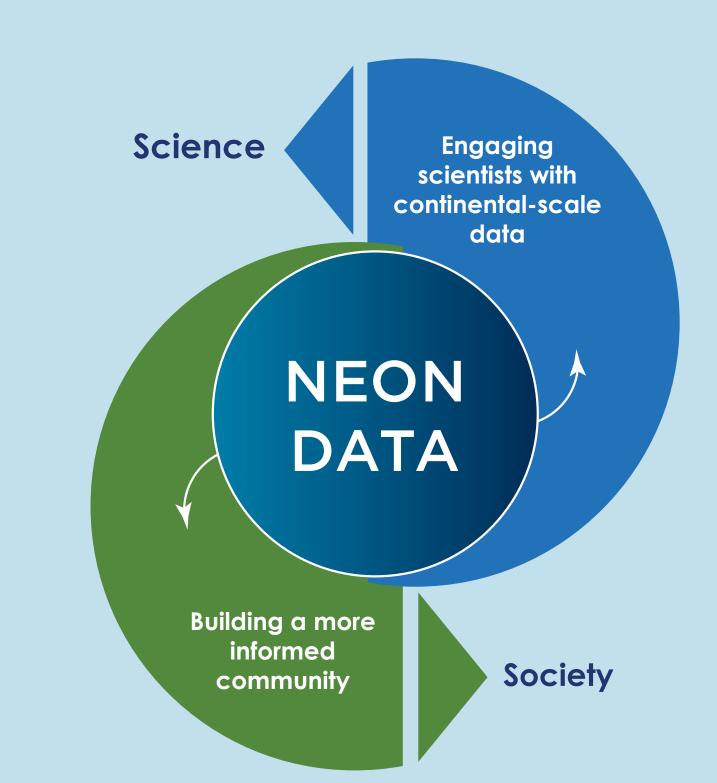


Various ways you can use NEON



Empowering an ecologically-informed society

The National Ecological Observatory Network is a major facility fully funded by the U.S. National Science Foundation. ©2024



Resources & programs include:

- Open access data
- Open access methods/protocols
- Self-paced online tutorials
- Science videos
- Teaching modules
- Teaching data subsets
- Workshops and courses
- Internship programs