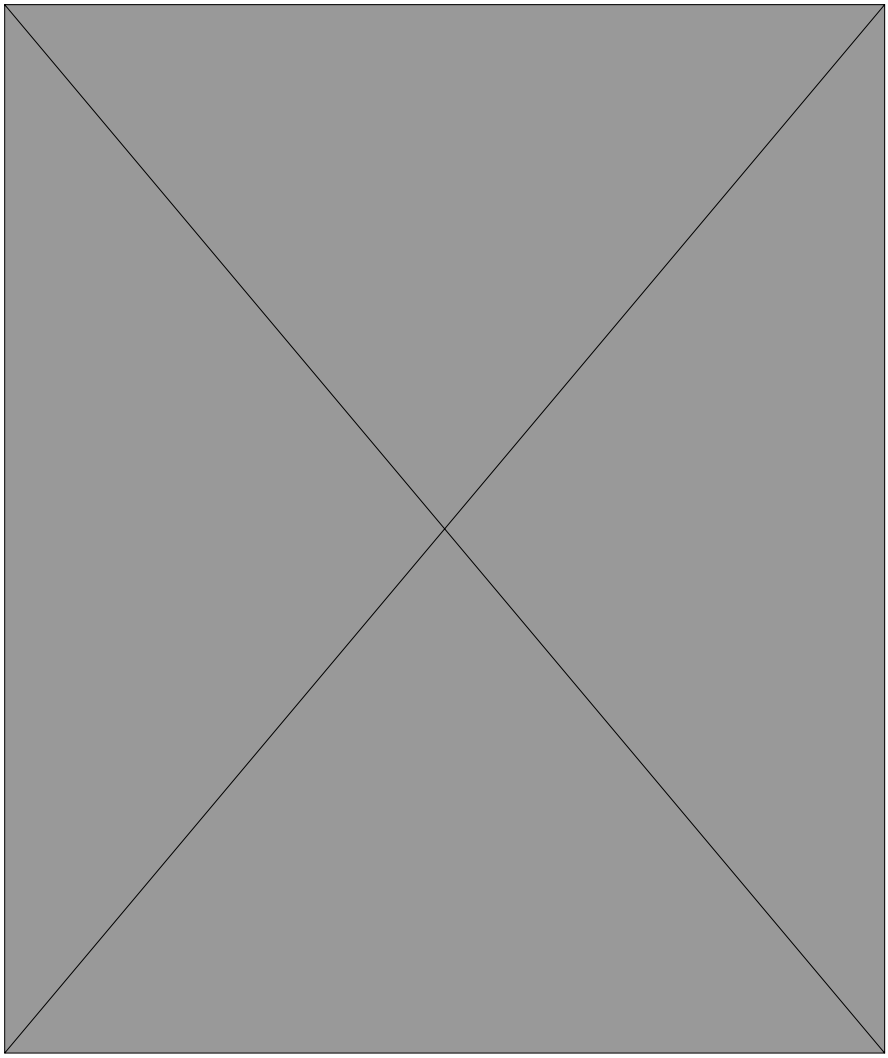
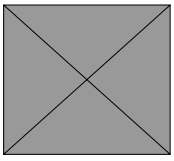
GPS Investigation



A GLOBE® Learning Investigation



GPS Investigation at a Glance

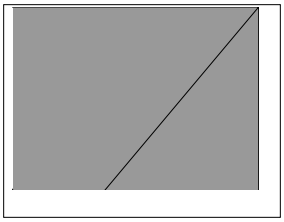
Protocol

Onetime Only Measurements:

Time of initial recording and averaged latitude, longitude, and elevation for the following Study Sites:
Atmosphere, Hydrology, Land Cover, Soil Characterization, Soil Moisture, and your school which is the center of your GLOBE Study Site.

Suggested Sequence of GPS Investigation

- Read the Protocol to learn precisely what is measured and how.
- Copy and distribute the *Field Guides (GPS and Offset GPS)* to your students.
- Prior to using the GPS receiver, identify all of your GLOBE sites that require latitude, longitude, and elevation measurements.
- Have the students conduct some test measurements near your school, following the *GPS Field Guide* found in the Protocol section. When you and your students are comfortable with the operation of the receiver go to your GLOBE study sites and, following the *GPS Field Guide*, take the position measurements at each site. Report your results back to GLOBE as soon as possible upon completing the measurements and calculations.



- If one or more of your sites are obscured by tree canopy, follow the *Offset GPS Activity Field Guide* to determine your site's position.
- If your students are experiencing difficulties with performing the measurements or are interested in further activities related to global positioning systems, refer to and conduct one or more of accompanying activities (*Relative and Absolute Directions* and *What is the Right Answer?*)

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