



Engaging Science

Implementation of the GLOBE
Project over an Academic Year

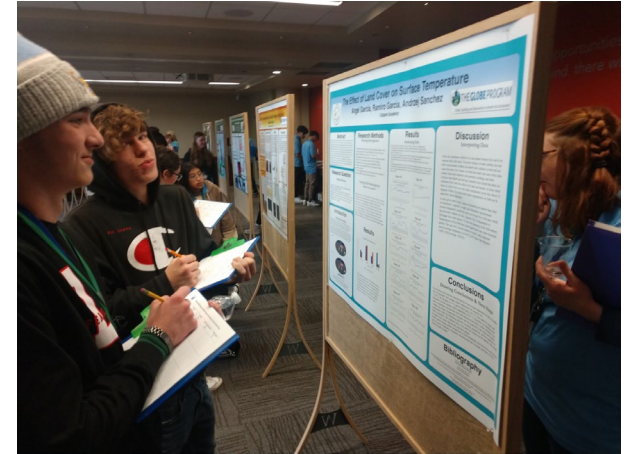
Joe Carstensen
Science Educator





Learning with GLOBE

- Students select their topic from a GLOBE
- Choose a day of the week to collect data.
- Try to collect at least 27 data points over 3 quarters
 - Quarter 1: Check data to see if it is being done correctly
 - Quarter 2: Ask for interpretations or thoughts on data
 - Quarter 3: Analyze and research data
 - Quarter 4: Present findings and extend if needed.





Pros:

- Hands on science
- Students choice
- Collect and analyze own data
- Options for collaboration
- Real Experience

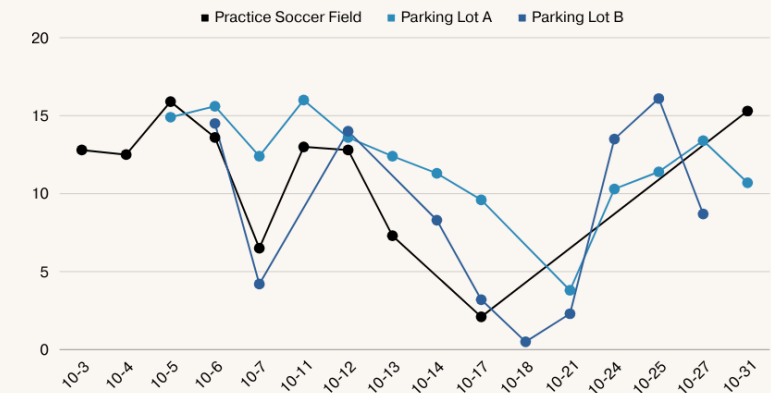


Cons:

- A major time commitment
- Big Data Blocks
- Graphing
- Student burn out aka winter



October Surface Temperature



Year: 2022



The **GLOBE** Program

#GLOBEMeeting2024





Protocol Training and Data Modules

Students are held accountable for own learning.

It helps to provide a list of what you can collect at your site.

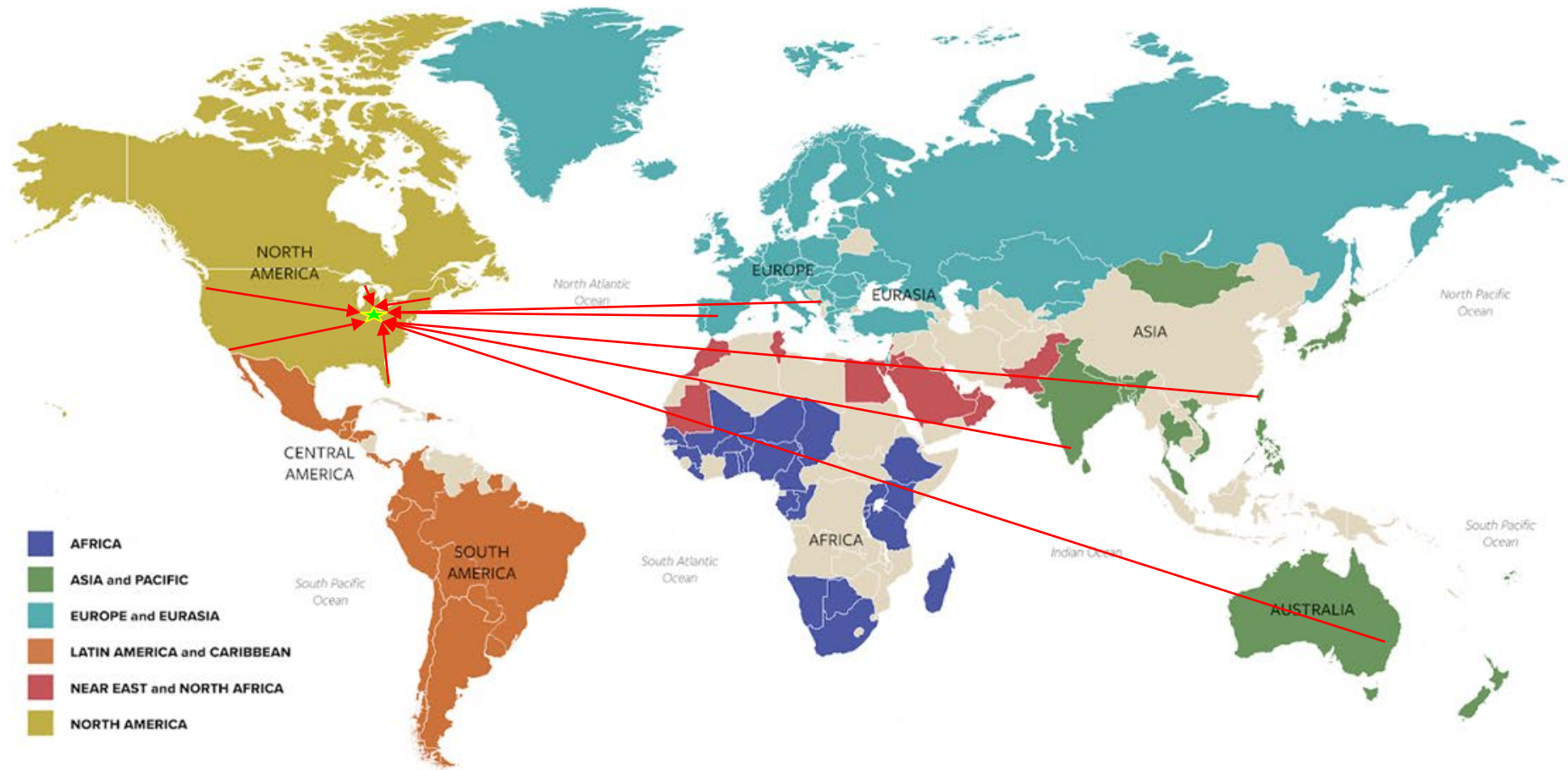
Practice together





The GLOBE Program

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Future Goals:

- Water quality in a slow flow stream.
 - Shorter study looking at 2 week period, twice a year.
- Continue taking data
- Tie in more data when applicable.
 - [My NASA Data](#)
 - [NASA's Eyes](#)
 - [EPA Data](#)





Thank You

Data is out there.

Curiosity needed.

For more information visit www.globe.gov

