



Engaging Directly with Students, Teachers, and Citizen Scientists: Before, During and After 2024 Solar Eclipse Event.

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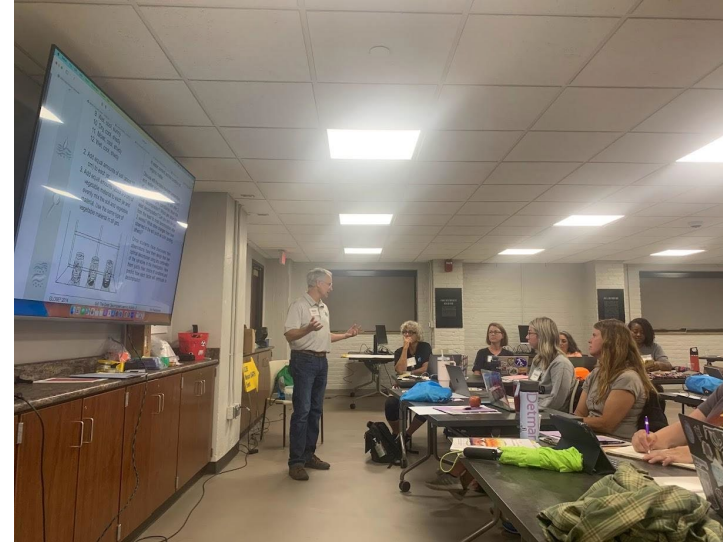
The Big Idea

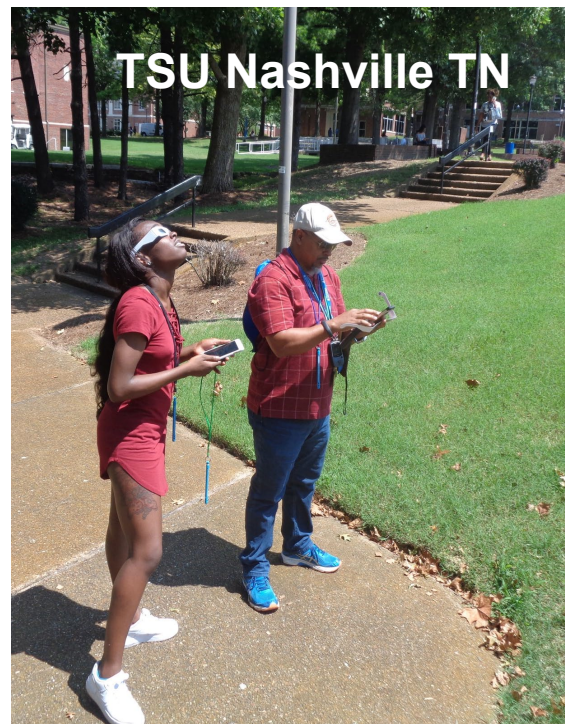
- Developing relationships with high school students via our work with the summer NASA-SEES Solar Eclipse Impact on Weather (SEIW) program has allowed some of those students to continue working with us throughout the school year on individual research projects
- Developing relationships with GLOBE Teachers using GLOBE Protocols like Surface Temp., Clouds.
- Students benefit by utilizing their projects as requirements for other things (ex. AP reports)
- GME benefits by having the students continue research into topics of our interest



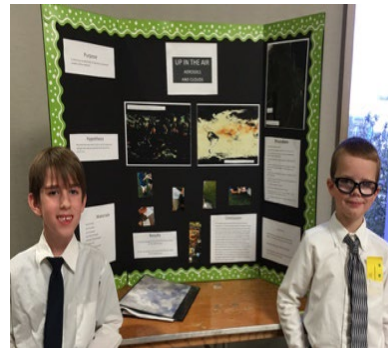
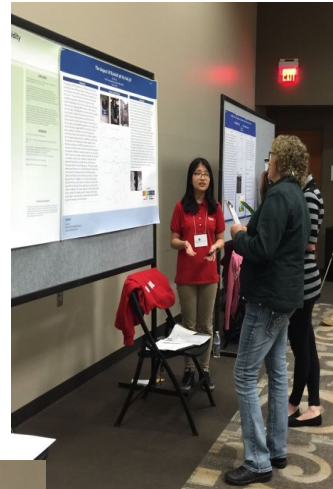
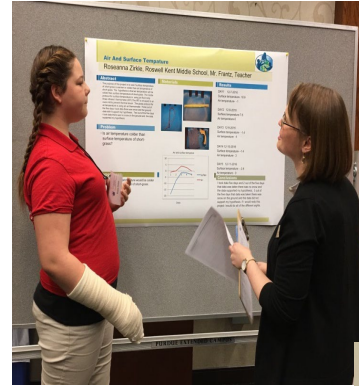


2024 Professional Development for Teachers on Solar Eclipse



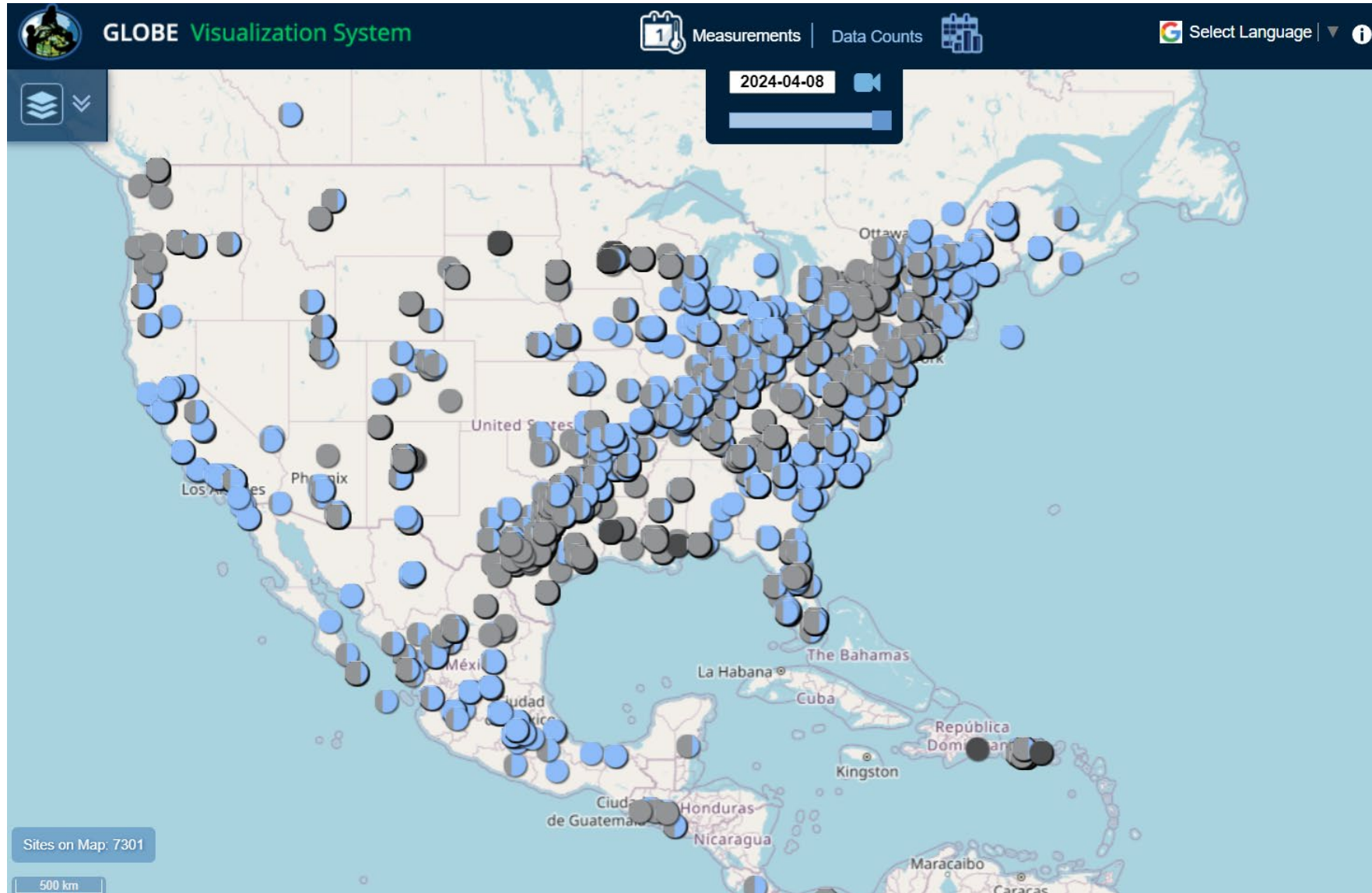


Support Students Presenting Research

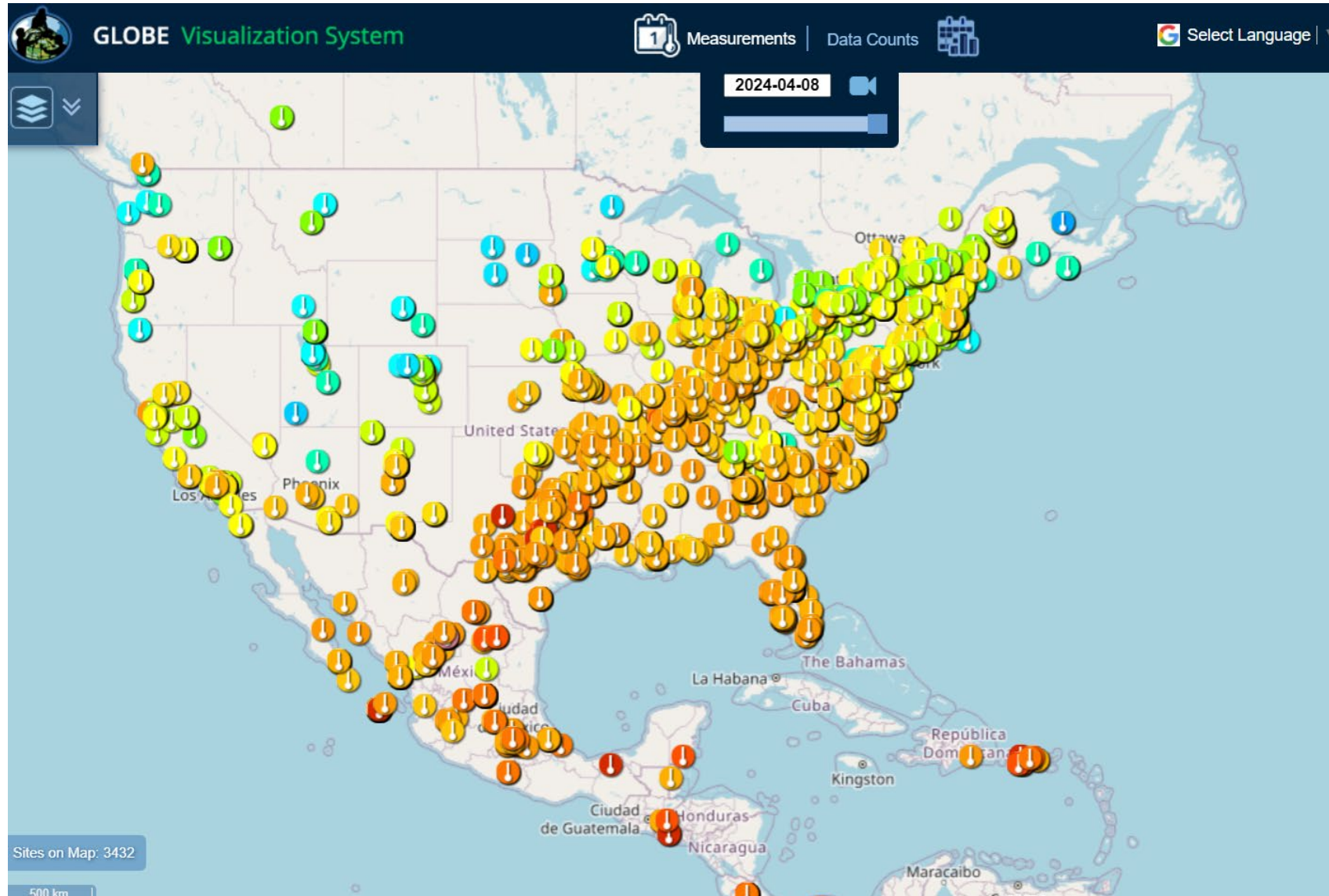


**GLOBE Student Research
Conferences**

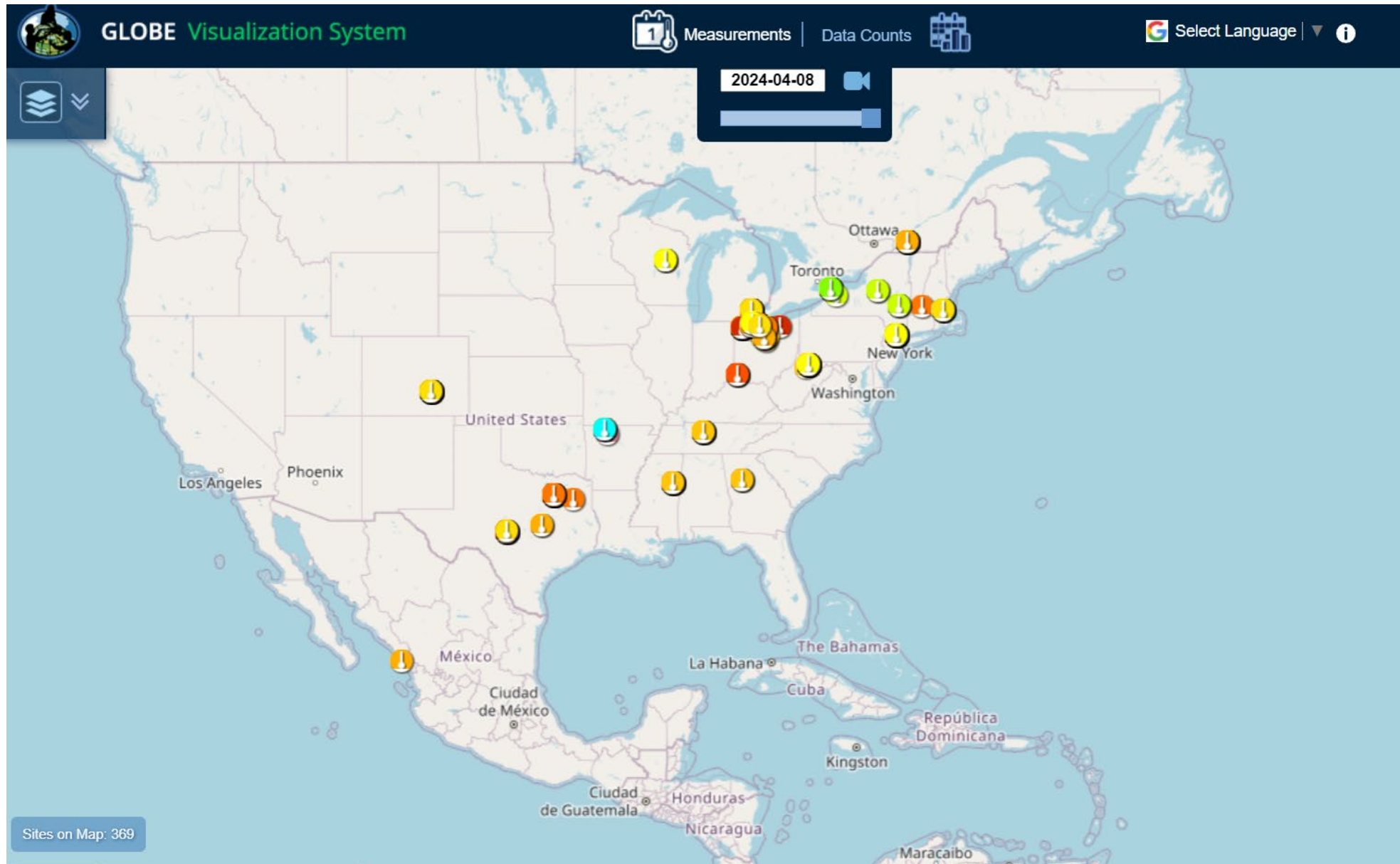
GLOBE Cloud Observations April 8, 2024



Air temperature April 8, 2024



Surface temperature April 8, 2024





SEES High School Summer Internships

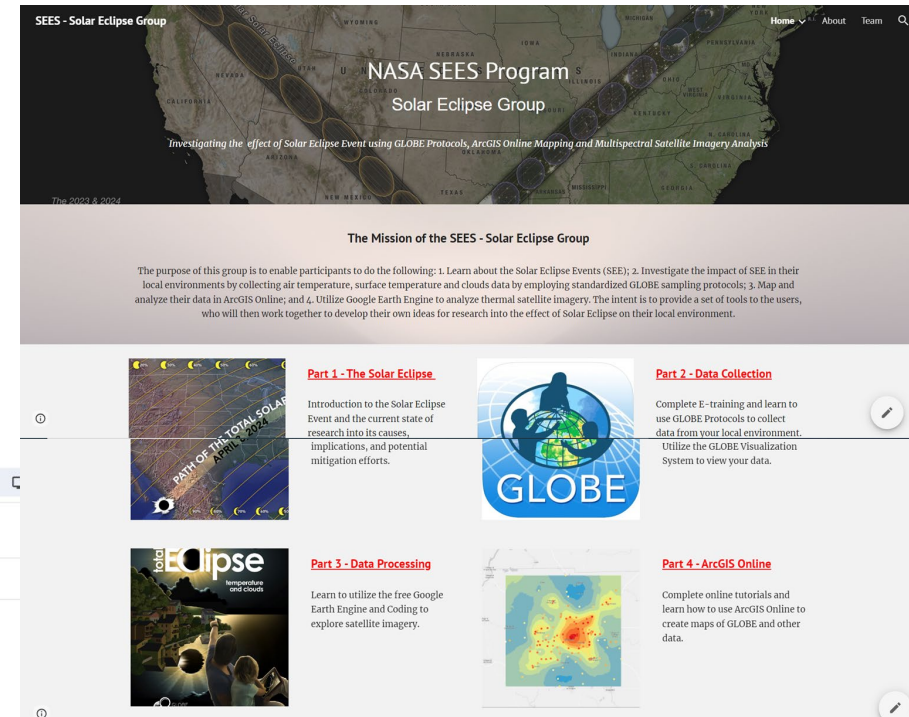
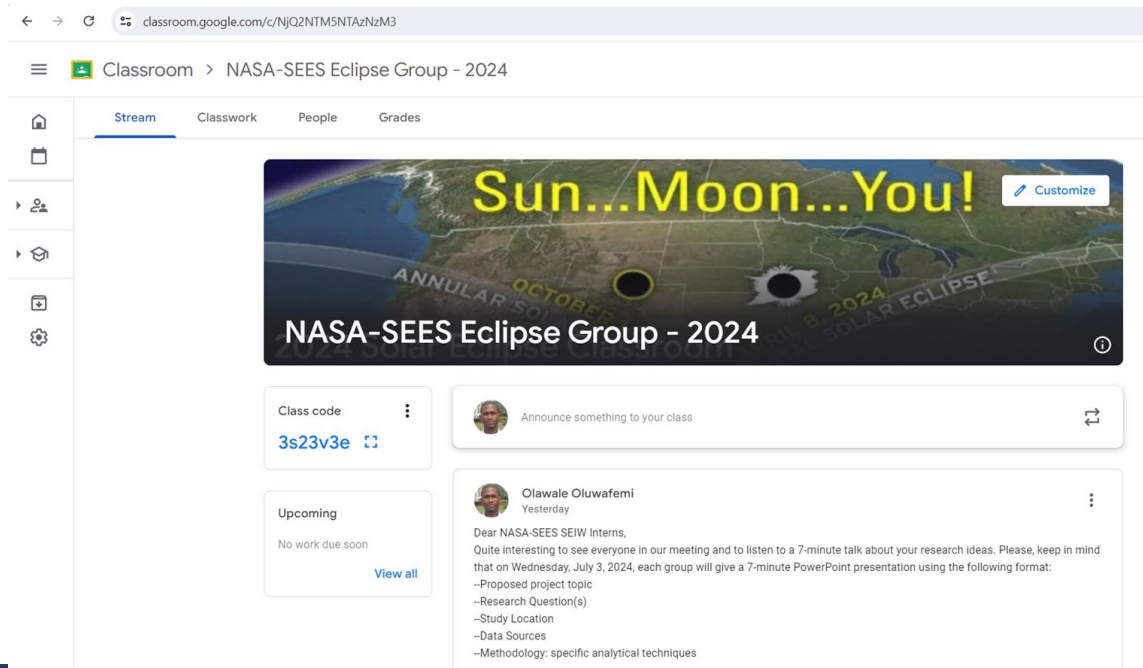
- Virtual-based NASA Internship experience for high school students
- Had 3 groups of students: (1) Urban Heat Island and (2) Air Quality
- **(3) Solar Eclipse Impact on Weather (SEIW)**
- Final research projects & presentations to be submitted to **NASA-SEES Team at Texas Space Centre & AGU.**
- NASA SEES Website:
<https://www.tsgc.utexas.edu/sees-internship/>
(informational videos at the bottom of that page)





1. Our Strategies

Google site and Google Classroom for content management





2. Our Challenges

CLICK TO ADD IMAGE, VIDEO

- Virtual programs: Solar Eclipse Impact on Weather (SEIW)2024.
- Short period of time: 5 weeks
- Different backgrounds and capabilities
- Lack of time: Mondays, Wednesdays and Fridays





3. Clear goals and expectations

- Interns' primary goal is to conduct a research project on Solar eclipse impact on weather
- ✓ SEIW Meeting days: Monday and Wednesday.
- ✓ Combined Sessions with UHI and AQI Groups: Friday





4. Weekly Plan & Targets

5-week plan

WEEK 1

Introducing the team, the program and the topic.

- Get the assignments done
- ✓ Pre-Assessment, Short paper, Reflection paper

WEEK 2

Determine research questions, form research groups and start the project!

- Get the assignments done
- ✓ GLOBE e-trainings, Exploratory Analysis, GLOBE Data Collection with the GLOBE Observer App

WEEK 3

Data collecting and processing

- Get the assignments done
- ✓ Research Discussions on [Padlet](#), Running series of codes to explore 2017 and 2024 SEE Datasets.

WEEK 4

Data processing cont. and wrap up.

- Get the assignments done
- ✓ Research Discussions on [Padlet](#), Exploring ArcGIS Online/Story

WEEK 5

Presentation practices

- Book appointment with the mentors for presentation prep



5. Our Challenges

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- Virtual programs: Solar Eclipse Impact on Weather (SEIW) 2024.
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2024 NASA-SEES Interns on Solar Eclipse Impact on Weather (SEIW)





Olawale Ayodeji Oluwafemi

[Collaboration](#)

[Blog](#)

[Member Activities](#)

Total Solar Eclipse Viewing Event at The University of Toledo: My Personal Experience



[Olawale Ayodeji Oluwafemi](#)

Posted 5/25/24 1:26 AM - 613 Views

The first time I have ever witnessed a solar eclipse was on March 29, 2006, in the southwestern part of Nigeria. As an undergraduate student who majored in Geography, I was curious to know how the celestial event would happen. Indeed, I was able to witness the partial solar eclipse which was an awe-inspiring celestial event, but was not opportune to study the effect of the unique phenomena on my local environment. When I read online late last year that the total solar eclipse will pass through Toledo, Ohio in the United States where I reside presently, I thought this might be a rare opportunity once again to observe the astronomical event and explore the wonder and amazement associated with it.

As a graduate student at the University of Toledo, and a research assistant with GLOBE Mission Earth (GME): (a UToledo-led NASA-funded program) domiciled at the Department of Geography and Planning, I was engaged in the Eclipse Viewing Event, organized by the University of Toledo. GME was part of the presenters with a presentation stand at the heart of our campus on Centennial Mall for this festive atmosphere.



GLOBE Mission Earth - The University of Toledo

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