THE GLOBE PROGRAM

2025 GLOBE International Virtual Science Symposium (IVSS)

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2025 International Virtual Science Symposium (IVSS)

30 Years of GLOBE: Understanding the Past, Present, and Future

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GLOBE INTERNATIONAL VIRTUAL SCIENCE SYMPOSIUM

- **Online symposium for students to share their GLOBE research with STEM professionals and the GLOBE community.**
- **Students get valuable feedback on their work from esteemed judges from around the world.**
- **Open to all GLOBE students grades K-16**
  - **Rubrics by grade level**

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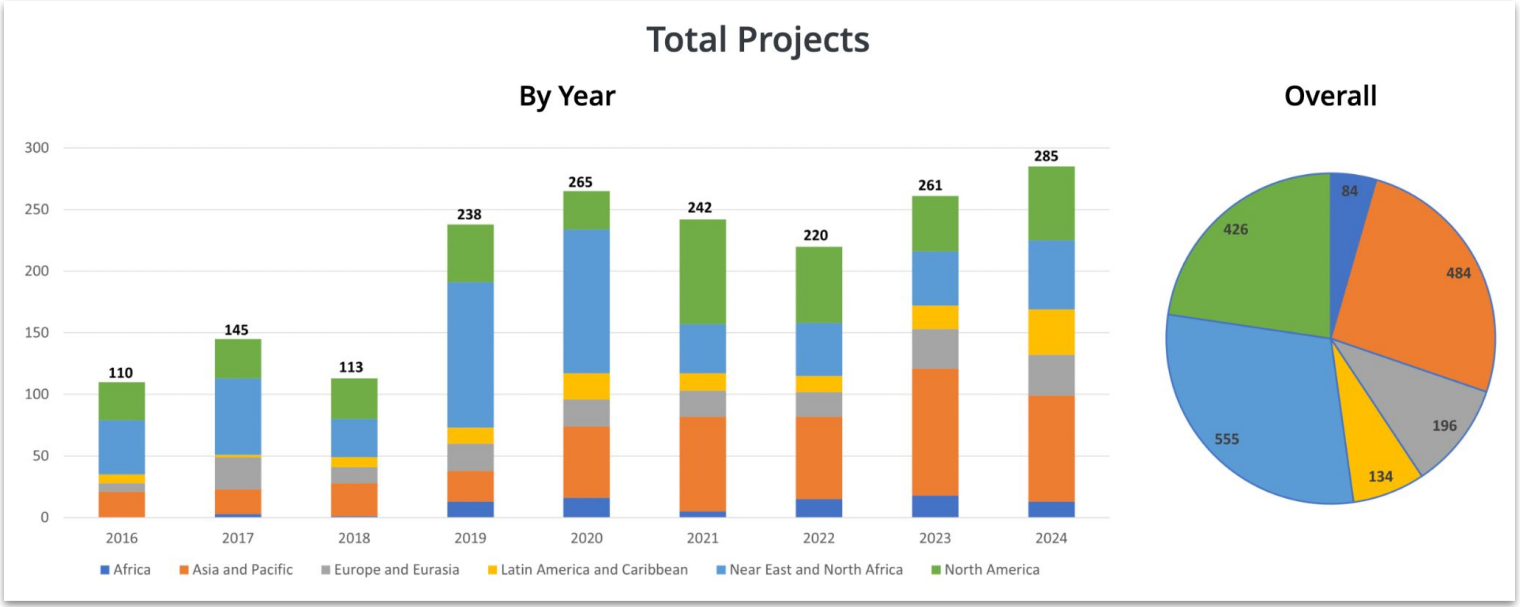
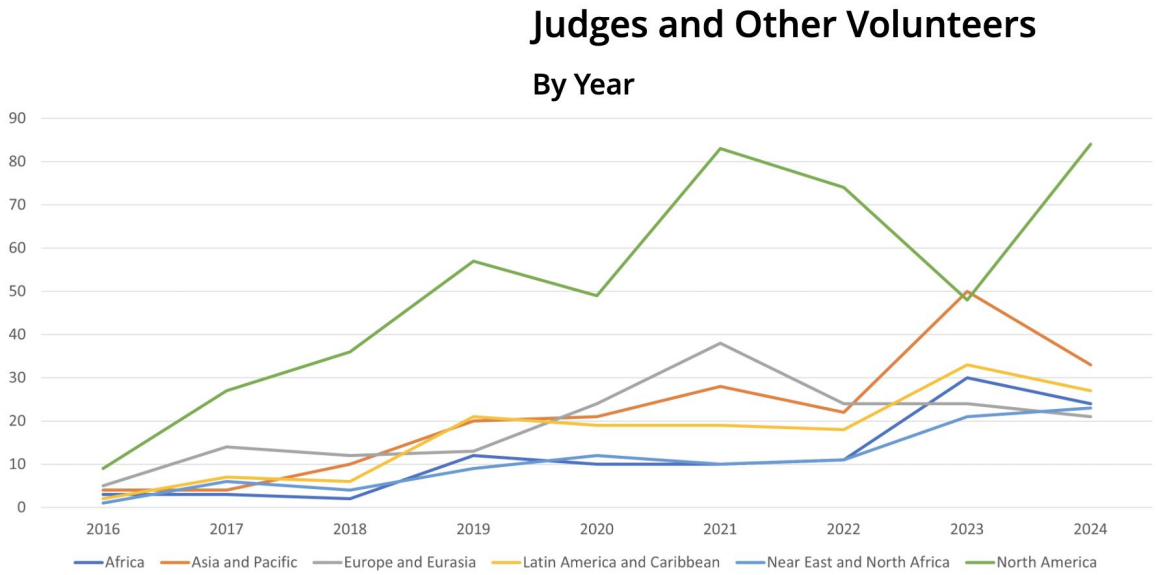
IVSS Student Research Reports History



Triage Process:

The GLOBE Implementation Office (GIO) evaluated projects to make sure they were not missing any required elements before sending to judges.

IVSS Volunteer Judges



Scientists, teachers, and community members from all over the world volunteer their time to judge students' research projects.

Thank you to our previous year's Judges!

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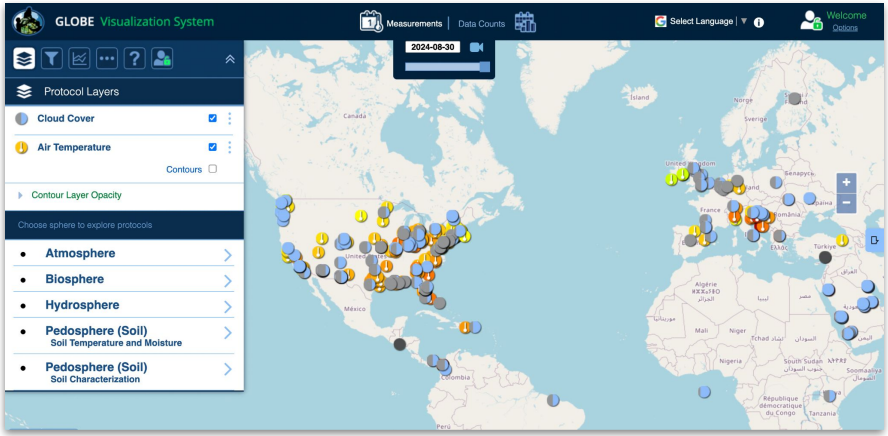
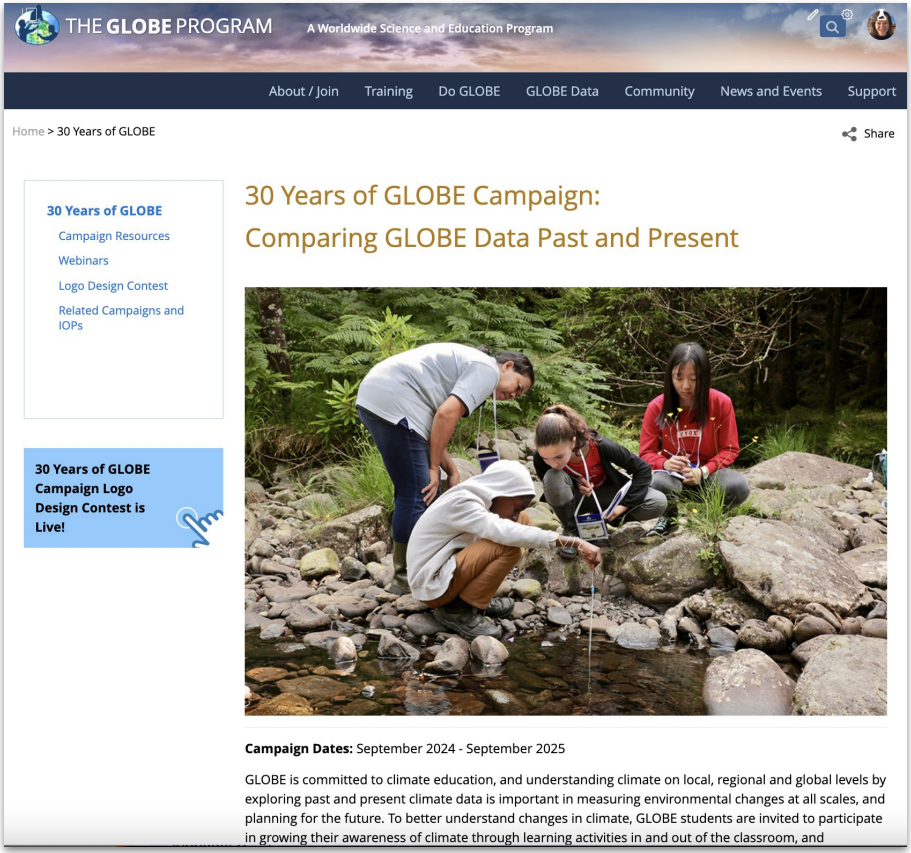
Celebrating GLOBE's 30th Anniversary

- Access and analyze data from the GLOBE database to enrich your understanding of Earth system processes
- Compare historic GLOBE data to newly collected data
- Enter your data in the GLOBE database
- Data analysis using historic GLOBE data is a required component of all IVSS projects in 2025





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2025 IVSS Timeline

16 September 2024: IVSS Informational Webinar

01 December - 05 March 2025: Reports Accepted

December - February 2025: Judge Recruitment

19 March 2025: Judging Webinar

19 March - 02 April 2025: Judging Period

22 April 2025: Earth Day Celebration, Feedback to Students and Stipend Drawing

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2025 IVSS Webinars

16 September 2024: Informational Webinar

09 October 2024: Accessing Data from the GLOBE Database Webinar

04 December 2024: Badges Webinar

8 January 2025: Ethical Science and AI Webinar

22 January 2025: How to Submit an IVSS Project Webinar

Additional webinars aligned to this year's IVSS theme will be held in conjunction with the 30 Years of GLOBE Field Campaign. Learn more: globe.gov/web/30-years-of-globe-campaign/overview

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Project Requirements

This is what you will need in order to be considered in the IVSS judging process.

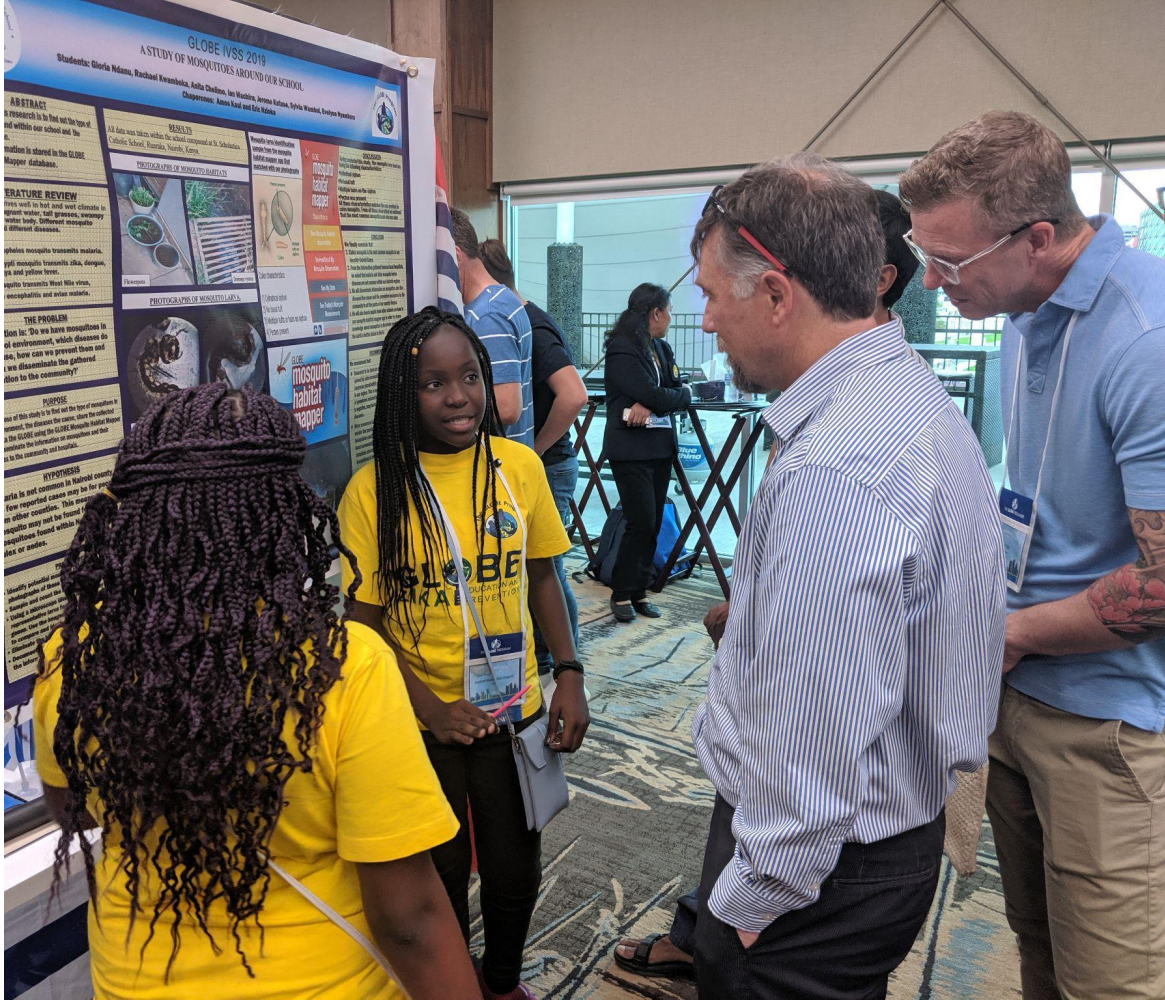
- **Abstract/Summary**
- **Research Report**
- **Explanation for Each Badge**
- **Presentation***
- **Photo Releases**
  - www.globe.gov/support/media/media-release

**explained more on next slide*

Presentation Details

It's important to communicate your science!

- Poster
- Narrated Presentation
- Video Link
- ArcGIS StoryMap



Drawing for Stipends

- **In order to be entered into the drawing students will need to:**
  - Earn 4-stars on their IVSS Research Project
  - Earn the featured badge for 2025: “I am a Data Scientist”
  - Receive at least two additional badges

- **Projects drawn will receive funds to help offset the cost of attending the 2025 GLOBE Annual Meeting in July.**

Student teams who have been selected as stipend recipients from the 2025 IVSS or U.S. Student Research Symposia (SRS) have the opportunity to attend the Student Experience at the 2025 Annual Meeting.

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Share

International Virtual Science Symposium

- Report Requirements
- Badges
- How Projects Are Judged
- Teacher Resources
- Student Resources
- Stipend Recipients
- Judge Resources and Guidelines
- Celebrating 2024 IVSS Reports
- Regional Statistics
- 2024 IVSS Reports

International Virtual Science Symposium

The International Virtual Science Symposium is an opportunity for GLOBE students to showcase their research to the rest of the community. Projects are judged by prestigious scientists across dozens of GLOBE nations. Students are eligible for stipends and GLOBE badges.

Students may submit a project on any topic, but they are encouraged to align their research with the year's theme. **The new theme for the 2025 IVSS Symposium is 30 Years of GLOBE: Understanding the Past, Present, and Future.** Come back to this page in the coming weeks for more information.

Note: Students must complete and sign a media release form in order for their project to be accepted for judging.

https://www.globe.gov/news-events/meetings_symposia/virtual-conferences

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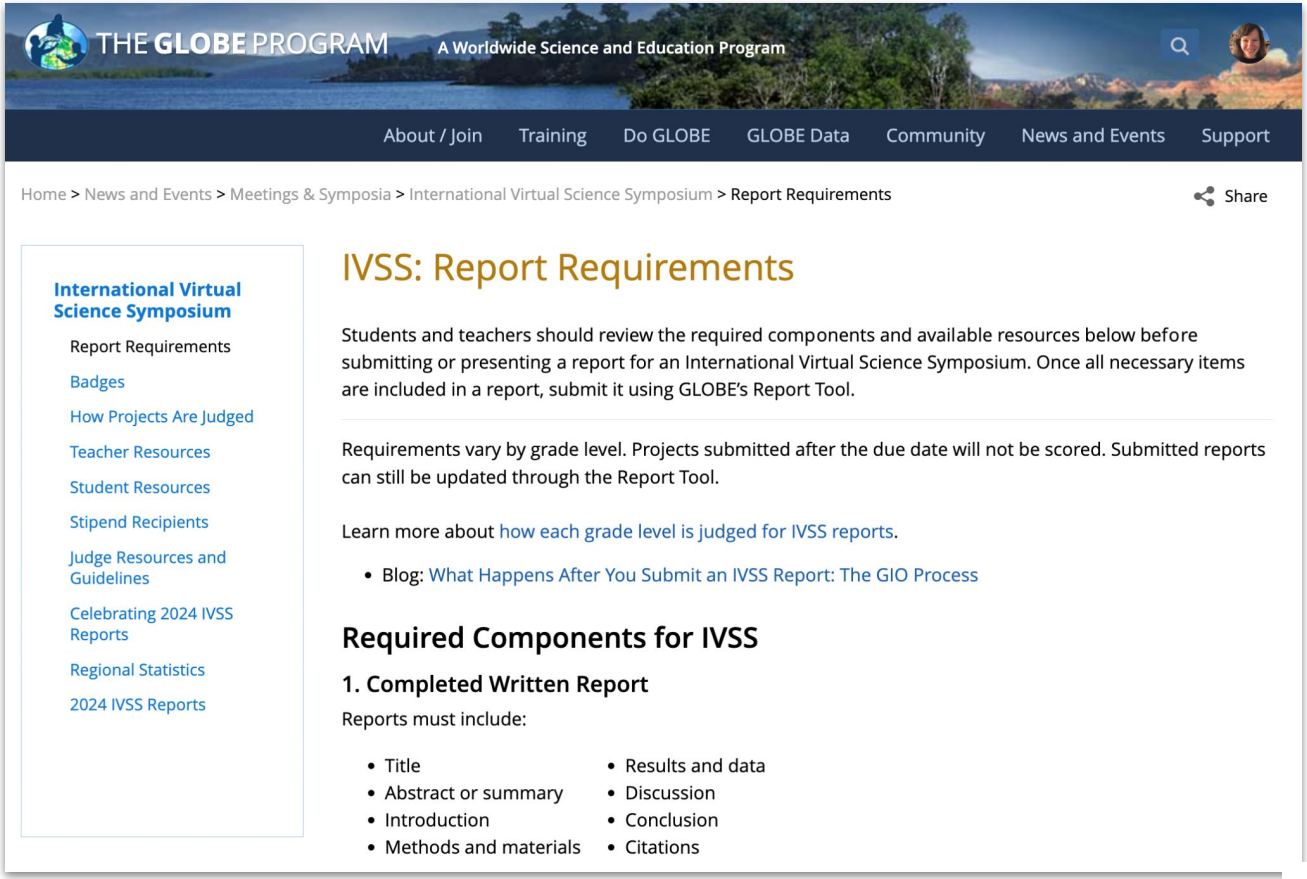

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Academic Integrity

- **Students must do the work!**
  - Student teams are responsible for writing their reports, preparing presentations, conducting research, and analyzing data.
  - Educators and scientist mentors are encouraged to provide feedback, facilitate learning, and offer additional instructional support, as needed.

- **Ethical use of Generative AI (i.e. ChatGPT)**
  - Students may not use Generative AI (i.e. ChatGPT) to write their reports or to create presentation materials.
  - Acceptable use of Generative AI may include the analysis of large datasets, such as predictive modeling, data processing, image analysis, and/or the development of code for analyses.

- **Students must acknowledge work produced by others**
  - Projects must cite sources and include a References page.
  - If Generative AI (i.e.) ChatGPT is used for any part of the investigation (see 'Ethical Use of Generative AI statement'), it must be cited.

IVSS Badges

Merit Based " I am a Student Researcher" Badge

- All projects will receive this badge
- Students earn 1-4 stars on their projects and receive the respective badge
- No limit to projects that earn top rankings

Required for 2025: "I am a Data Scientist" Badge

- Students must access and analyze historic data from the GLOBE database, in addition to newly collected data, as part of their 2025 IVSS project

Additional Science Badges

- Students need to choose to apply for these badges when uploading a project
- Students should describe how each badge was earned in their report
- Students can earn up to 3 out of 7 additional badges
- Minimum of two additional awarded badges are required to be part of the drawing, including the "I am a Data Scientist" badge

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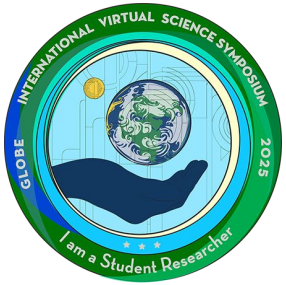
Merit Based Student Research Badge



1 Star Project - Insufficient

The report is missing significant information or does not contain all five required elements.

2 Star Project - Needs Improvement

Report may be incomplete and need additional clarification or be missing one or more of the required elements.

3 Star Project - Good

Report contains all required elements and is written clearly, but could need a bit more information or explanation.

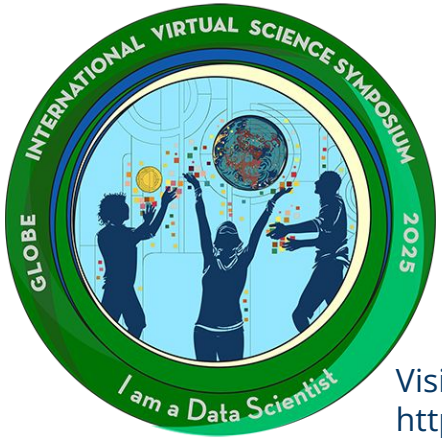
4 Star Project - Exceptional

The report goes above and beyond the expectations of this project and is clear and concise.

2025 IVSS Theme

30 Years of GLOBE: Understanding the Past, Present, and Future

Highlight Badge for 2025 IVSS



I am a Data Scientist

The report includes in-depth analysis of data downloaded from the GLOBE Database as well as the students' own data sources. Students discuss limitations of these data, make inferences about past, present, or future events, or use data to answer questions or solve problems in the represented system.

Visit the IVSS Badges page for detailed requirements:
https://www.globe.gov/news-events/meetings_symposia/virtual-conferences/ivss-badges

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New Badge for 2025 IVSS
“I am an Earth Systems Scientist”

I am an Earth Systems Scientist

The report clearly describes the interconnectedness of Earth’s spheres on the research question and applies multiple GLOBE protocols, or GLOBE Protocol Bundles, to investigate the research question. The research team clearly explains the dynamic and interconnected nature of Earth’s systems and the processes that influence and depend on one another through the analysis and interpretation of GLOBE and Earth system science data.

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Languages

- We will be accepting projects in English, Thai, Spanish, French, Arabic, Portuguese and Croatian
- If your language is not listed above, please get in contact and we can see whether we can add additional languages (depends on the availability of judges)
- Please translate key section titles of reports (methods, intro, title, etc.) into English to help IVSS staff in the triage process. When possible include English translations of entire projects in case there are not enough judges

Past IVSS Webinars

- GLOBE Data Science Introduction and Q&A
- Mapping Your GLOBE Data with ESRI ArcGIS
- How to Create an Effective Scientific Poster *(Dual Language - English/Spanish)*
- How to Develop a Good Research Question *(Dual Language - English/ASL)*
- STEM Storytelling From an Apache Point of View

Past webinars are posted on the IVSS Student Resources Page!

Common Questions

Who can judge projects?

- We put a minimum of two STEM professionals on each project. Judges can be teachers, graduate students, community members, or alumni.

Do judges have to be part of the GLOBE International STEM Network (GISN)?

- No! If a scientist or other STEM professional doesn't have a login for globe.gov, we have a generic "STEM professional" account they can use. However, this is a great way to participate in the GISN for existing members!

Why aren't the instructions translated into more languages?

- We need volunteers to translate them! If you are able to translate any of the materials, we can add them to the website. Instructions are currently translated in Spanish and Arabic.

Common Questions

Do I have to pick optional badges to be eligible for the stipend drawing?

- Yes! The “I am a Data Scientist” badge is required for all 2025 IVSS projects, and all students receive the “I am a Student Researcher” badge. In addition, students must select at least ONE additional badge to be eligible for the stipend drawing. Also, they should describe how they earned the badge(s) in their report.

My students have never participated in a science fair or symposium. Can they take part?

- Yes! We have a lot of resources available for new participants. Please join us!

Can younger kids enter a project?

- Yes! We have grade-specific guidelines for students starting from Kindergarten to undergraduates. We also have a webinar all about K-4 (lower primary or ages 5-8) projects.

Participating in the IVSS was an unforgettable experience that has shown me the importance of science in sparking curiosity as a young student, and the joy of connecting with other young scientists makes the journey of discovery even more exciting and inspiring.

~ Diego Sierra Sánchez, Rochester School, Colombia

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More Information

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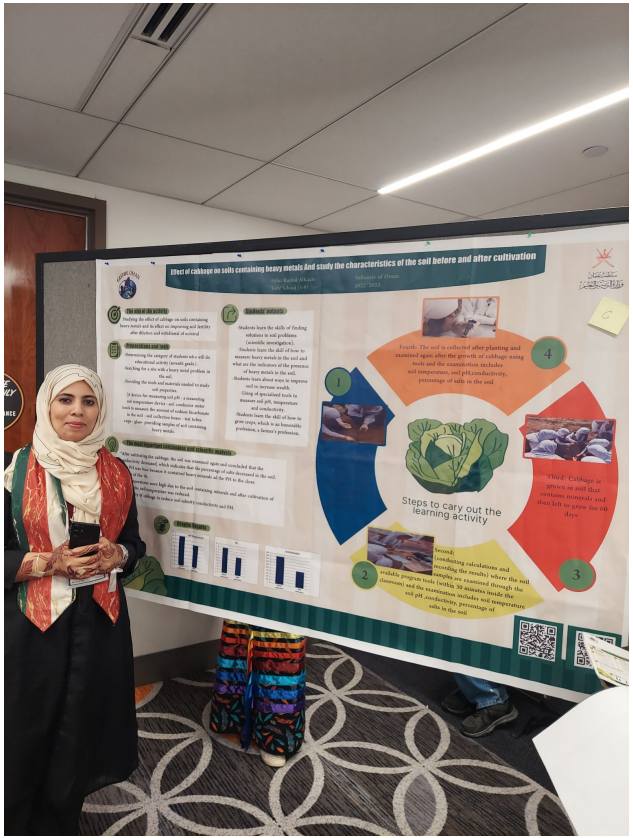
> www.GLOBE.gov

> News & Events

> Meetings & Symposia

> Virtual Science Symposia

Email: help@nasaglobe.org



Thank you! Questions?