

GLOBE INTERNATIONAL VIRTUAL SCIENCE SYMPOSIUM—BADGES AND CRITERIA FOR 3–5 SCIENCE PROJECTS

GLOBE INTERNATIONAL SCIENCE SYMPOSIUM
STUDENT RESEARCH BADGE (ALL PROJECTS—OVERALL REPORT)

★★★★	★★★	★★	★	
<ul style="list-style-type: none"> • Report contains all of the criteria listed below and makes clear connections among them. • The report is well organized, neat and well presented. • The writing is clear and concise. • The report contains the five elements required for acceptance, clearly labeled. • Members of the project team respond to judges’ comments with additional insights gained. 	<ul style="list-style-type: none"> • Report contains all of the elements and most of the criteria listed below and makes clear connections among them. • The report is well organized, neat and well presented. • The writing is clear. • The report contains the five elements required for acceptance, clearly labeled. 	<ul style="list-style-type: none"> • Report contains most of the criteria listed below. • The report is well organized. • The report contains the five elements required for acceptance, clearly labeled. 	<ul style="list-style-type: none"> • Report contains the five elements required for acceptance, clearly labeled. (1, 2, 3, 5 & 7) 	<ul style="list-style-type: none"> • Report submitted, but does not contain all five elements required for acceptance.

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Project elements and criteria (*required element)

1. Title*

- a. Concise (less than 15 words)
- b. Summarizes paper's content

2. Summary*

- a. The problem
- b. Research questions
- c. Objectives set
- d. Conclusions

3. Research Questions*

- a. Include why they are important and are of scientific interest
- b. Concern some aspect of Earth's environment (local or global issue)
- c. Provide significant insight into both the topic of investigation and the research process
- d. Require a thoughtful research plan
- e. Are answerable through scientific research appropriate to the scope of the report.

4. Introduction

- a. Description of the problem
- b. Importance
- c. Community relevance

5. Research Methods*

- a. There is a direct link provided between the datasets and research question(s)
- b. Study site: A map and description of the study site. It should mention area of study, climatic characteristics and basic aspects of land cover

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- c. **Data collection: A description of GLOBE protocols used to answer the research question as well as where and how data was gathered in the field (sampling method: Where, how many samples were measured)**
 - d. **Print screen of data entry in the Web page of GLOBE.**
 - e. **The data presented are sufficient to answer the research question(s)**
6. **Results**
 - a. **Tables and graphics of data**
 - b. **Data support the conclusions**
7. **Conclusion***
 - a. **Gives a thorough and insightful explanation as to how the conclusion was reached**
 - b. **Put findings in context, stating why they are important or relevant**
 - c. **What follow-on research and actions could be taken; future protocols that could be added**
 - d. **Impact of working with a project mentor**
8. **Bibliography**
 - a. **Materials listed**
 - b. **GLOBE materials used**