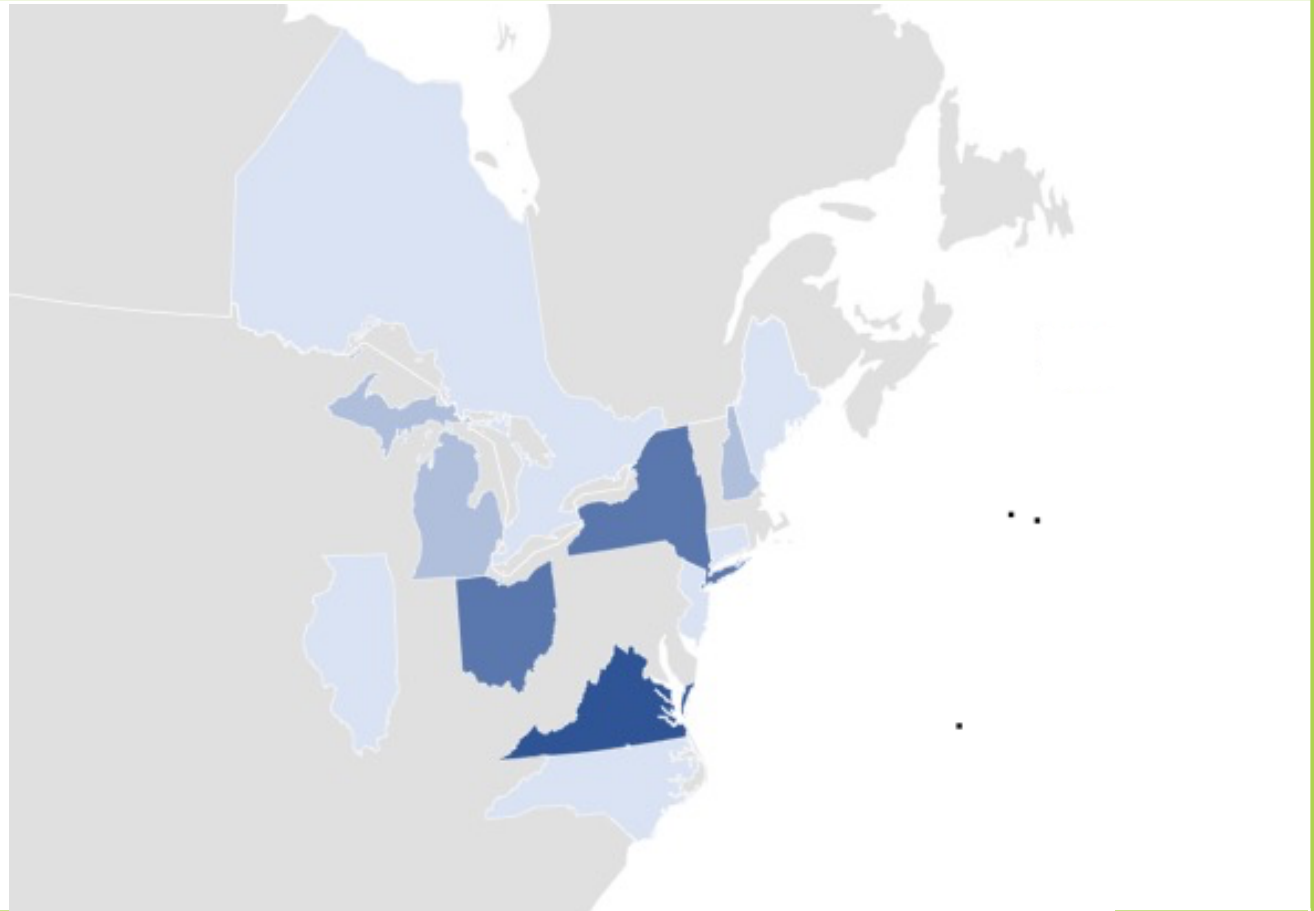




# Mission SnowGLOBE 2023 Evaluation Summary

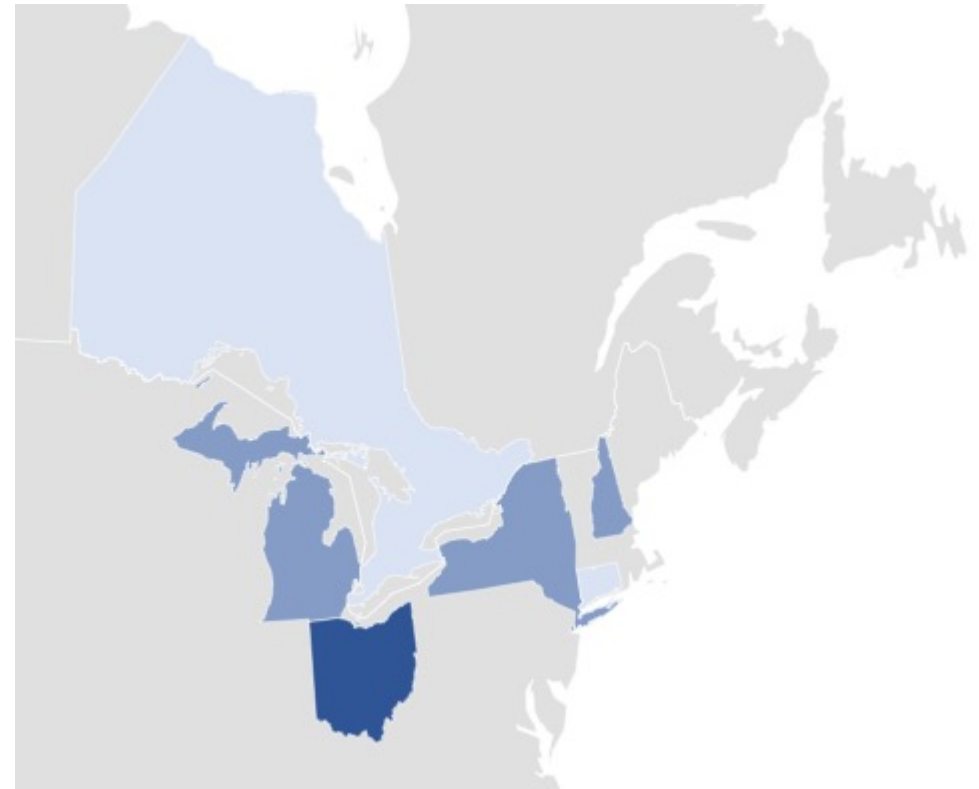
Eleanor M. Jaffee, Ph.D.  
External Evaluator  
GLOBE U.S. Coordination Office

State	Sites
Connecticut USA	1
Illinois USA	1
Maine USA	1
Michigan USA	2
New Hampshire USA	2
New Jersey USA	1
New York USA	4
North Carolina USA	1
Ohio USA	4
Ontario CAN	1
Virginia USA	5
<b>Total</b>	<b>23</b>



# Mission SnowGLOBE Registrant Locations

State	Sites
Connecticut USA	1
Michigan USA	2
New Hampshire USA	2
New York USA	2
Ohio USA	3
Ontario CAN	1
<b>Total</b>	<b>11</b>



# Data Collection Locations

# Mission SnowGLOBE Survey Participation

23 registered for Mission SnowGLOBE

11 registrants responded to our survey (48%)

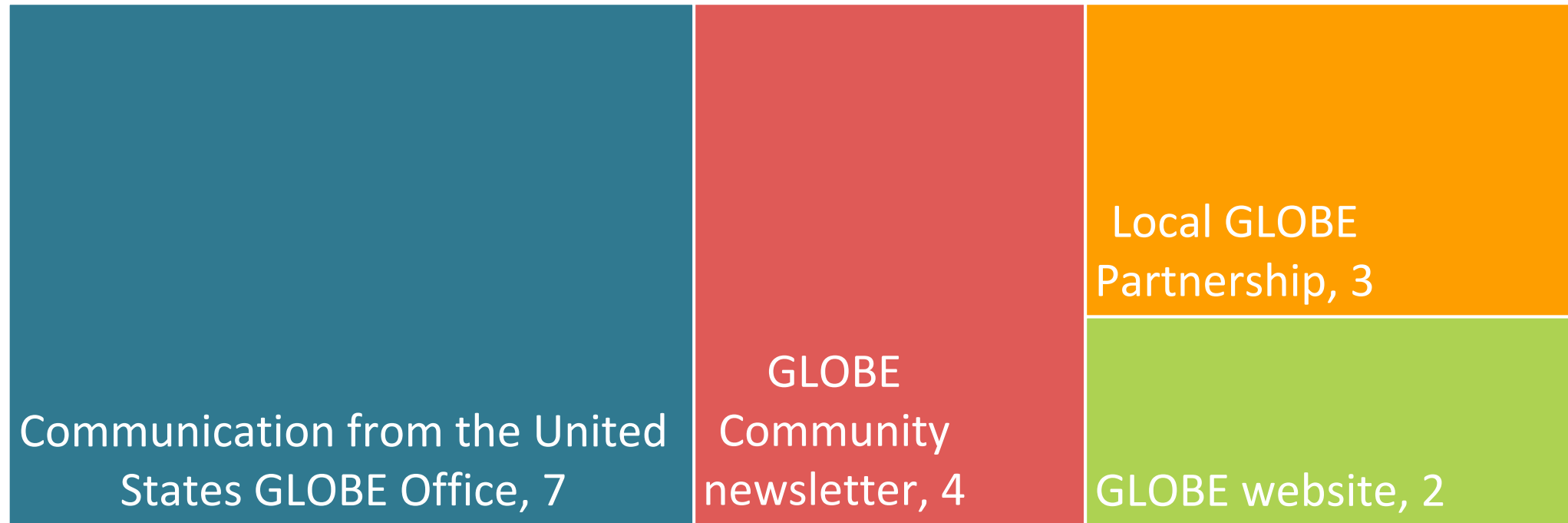
Reason for NOT participating (1/1 provided): "I wanted to participate but I was afraid we would not be able to complete the mission and skew your data. I am interested in future missions."

Reason for NOT collecting data (1/2 provided): "Most of the big storms were over the weekend and I was at home, not school."

**10/11 survey respondents reported participated in Mission SnowGLOBE** (for example, viewed or participated in the Webinars, used the resources, interacted with Mission scientists, or collected data)

**8/10 survey respondents who participated in Mission SnowGLOBE collected data for Mission SnowGLOBE**

## How did respondents hear about Mission SnowGLOBE? (Selected all that applied.)



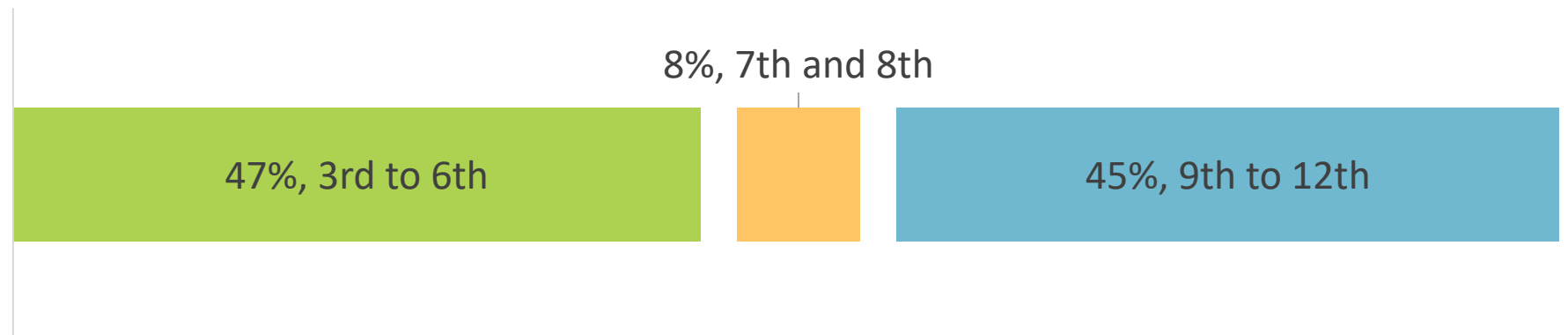
- None selected social media or other

# Participating Students

Grades	Students
3 <sup>rd</sup> to 6 <sup>th</sup>	56
7 <sup>th</sup> and 8 <sup>th</sup>	10
9 <sup>th</sup> to 12 <sup>th</sup>	54
<b>Total</b>	<b>120</b>

- Other (2)
  - “University pre-service”
  - “Did it myself”

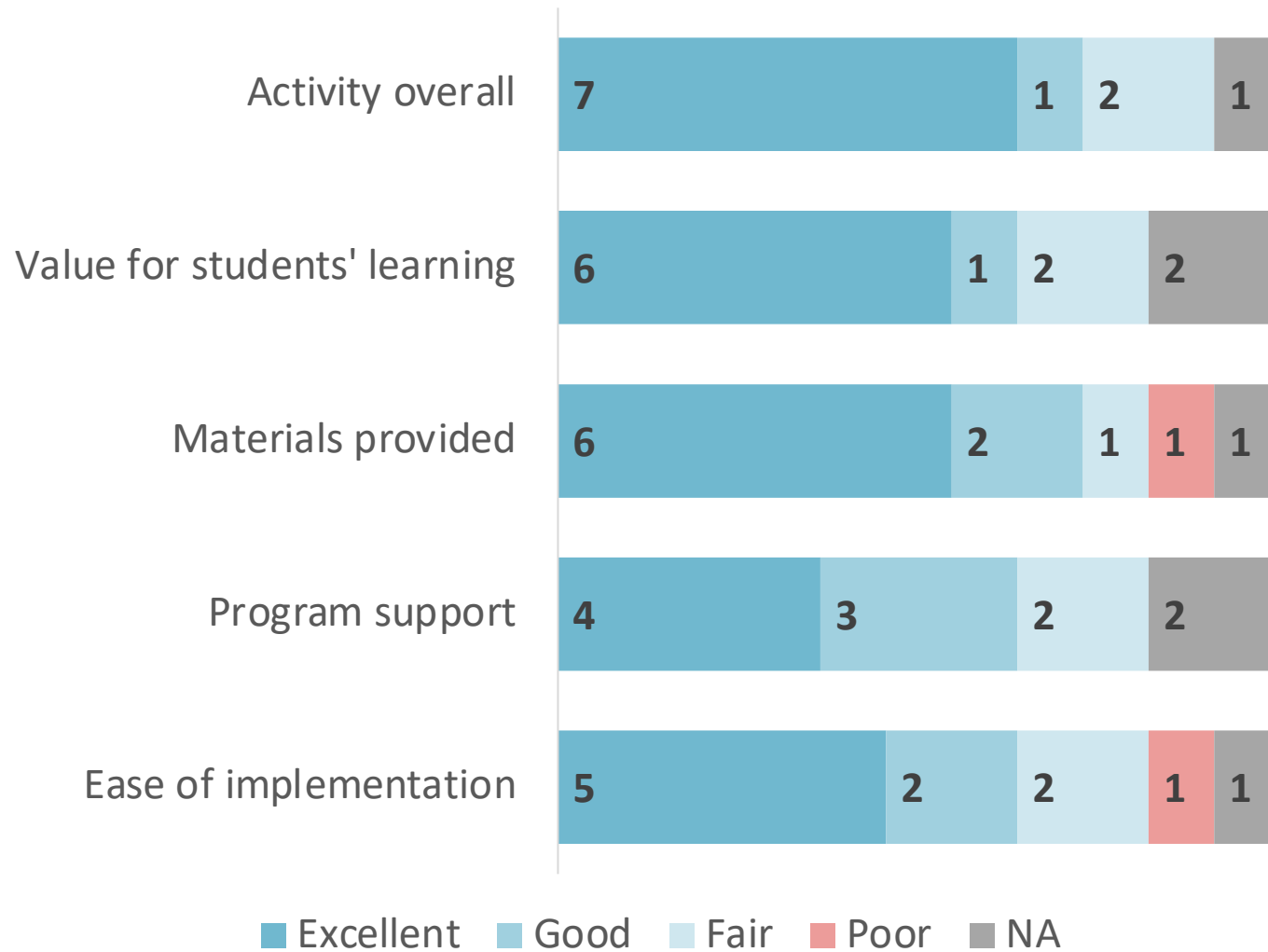
Percent of Students by  
Grade Band



What resources did respondents and/or their students use to support participation in Mission SnowGLOBE?  
(Selected all that apply.)



# Participant Ratings





# What participants liked best

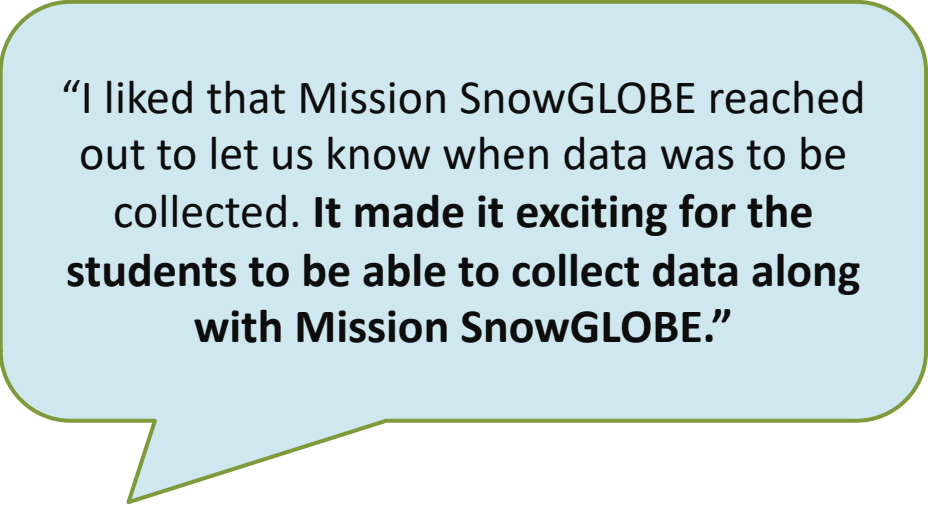
**“I really liked the real-world data collection being done by students and the ability to see their data in an international database.** I think a lot of my students were insecure about collecting data for a valuable mission, but realized they had the tools needed to obtain accurate and meaningful data and to do real science. **The Remind texts were also a cool way to engage in the project.** I really liked the ability to see the data on the map on the GLOBE website as well, this was cool to show the kids.”

**“Mission SnowGLOBE offered an opportunity for students to look at snow from a new perspective through the lens of a scientist.** They knew the information was being collected for a specific purpose and were enthusiastic to be part of the process.”

**“The excitement from my students that they were working with NASA!!”**

# What participants liked best (continued)

- “It was very easy to implement.”
- “I really liked the concept.”
- “Opportunity for students to participate in citizen science related to the academic content they are studying in class.”
- “Kids were excited to go outside even though it was cold. They were very surprised by the snow melt difference.”
- “It really helped my students focus on winter precipitation. We normally only do the precipitation protocol during the summer.”



“I liked that Mission SnowGLOBE reached out to let us know when data was to be collected. **It made it exciting for the students to be able to collect data along with Mission SnowGLOBE.**”

# Areas for improvement

- Opportunities for students to access the dataset and interact with the scientists
  - **“I wish the students could have seen the data that Mission SnowGLOBE obtained and to be able to compare/contrast our data with theirs.** On our end, students did not see the results of Mission SnowGLOBE. It would have been awesome for students to see the scientists’ data. Also, it would be nice for the students to be able to communicate with the scientists and to be able to ask them questions. ... Overall, more interaction with students so that they realize that data is being collected and that their data is being recognized in comparison to the scientists.”
- GLOBE Observer app & Visualizer
  - **“The GLOBE Observer app gave us some trouble in the field** (crashed when we took pictures...) ... sometimes the snowpack for one class took longer than one period to melt ... the app would not let the next period start entering data until we finished entering data for the previous period. ... **We stopped using the mobile app and recorded the data on paper.”**
  - **“Visualizing the data had some hiccups.** I recognize that this is a new program and with all things new, there is troubleshooting in coding. However, it was a little disheartening for the kids to do all of the work to submit accurate data, and then not be able to see things like the New Snow Depth appear in the data base.”

# Areas for improvement (continued)

- Information/clarification/training on data recording, data uploading, and data visualization
  - “We took pictures of snowflakes when we collected data while it was snowing, but I did not know where, how to upload those pictures.”
  - “I had a question about new-snowfall vs. snowpack.”
  - “[Communication/training on the Visualizer system] would have been SO helpful in the beginning! I am very thankful for the time put in for the walkthrough document you provided me on how to use the system, but at that point in the project I had already lost interest by some of my students since we weren't able to get things to work in the beginning like we had hoped.”
- Equipment
  - “If there is any way you could provide us with snowboards and rain gauge overflow tubes that would be great. I made/purchased these with my personal money to participate in this program but having them borrowed would have been much easier.”
- Other
  - “I think if we encouraged participants to collect snow & SWE everyday regardless of IMPACT mission there could be extended learning opportunities.”



All 10 participants would  
*definitely* (8) or *probably* (2)  
participate in a GLOBE activity  
like Mission SnowGLOBE  
again

---



Eleanor M. Jaffee, Ph.D.  
Owner & Principal Consultant  
[www.insightsevaluation.com](http://www.insightsevaluation.com)  
[eleanor.jaffee@insightsevaluation.com](mailto:eleanor.jaffee@insightsevaluation.com)  
(603) 782-9004