

HoPE - Observation Data

When: August 10, 2017

For how long: 60 minutes, from 2:15 PM to 3:15 PM

Where: Discovery Room (upstairs)

Age group: 3 nine-year-old children; 7 young teenagers (11 to 17 years old); one adult.

What we did: We invited visitors to try **the updated prototype for the Climate Wall:**

- *What's warming the planet?*

Version 2.0: <https://beefoo.github.io/climate-lab/forcings-c/>

During the experience, the facilitator asked questions like: "Can you answer the questions on the top?" "Did you learn anything new?" "Do you have any recommendations?"

1. What's warming the planet?

Number of users: 11 people

Technical Experience:

- *Did they learn how to use the tools to control the variables?*
 - 9 of 11 visitors figured out how to use the controls. They clicked and then held the buttons to read.
 - Another 2 visitors only clicked the buttons to make sound without holding the buttons to read.
- *How did they interact with multiple buttons?*
 - 4 of 11 visitors pressed more than one button at once
 - 2 of 11 visitors tried to answer the prompt first and then pressed the button to confirm their assumptions.

Content:

- *Did they seem to understand the concept?*
 - 10 of 11 visitors answered questions correctly
 - 4 of 10 visitors said they got the answer from the graphs: the line of greenhouse gases goes up and higher than others
 - Another 2 visitors said they knew the answer before this experience
- *Did they learn new things?*
 - 5 of 11 visitors said they learned new things
 - All 5 of them said they learned that volcanos have a cooling effect on the planet

- 3 of 5 visitors said they learned that deforestation has a cooling effect on the planet
- One visitor said he learned that greenhouse gases warm the planet
- One visitor said he learned that the sun is not the one warming the planet

Reaction:

- *Surprising/delightful response?*
 - 4 of 11 visitors said “Wow”/”Ah” at the appearance of the line of greenhouse gases
 - 2 of 11 visitors said “Wow”/ ”Wow, I don’t know it before” at the appearance of the line of volcano
 - 2 of 11 visitors laughed when pressing all the buttons
 - One visitor said “Wow” at the appearance of the line of deforestation and read the text out
- *Confused/ Frustrated response?*
 - One visitor didn’t know what the graphs said and didn’t know what to do at first
 - 2 visitors were confused with the prompt.
 - When asked "what's warming the planet", one visitor said: "sun". Then the facilitator asked "warm the planet more than usual?", she said "might be greenhouse gases"
 - Another visitor said: "I know you are talking about global warming but other people may not"
 - Another visitor asked: “Why did volcanos cool the planet? What happened in that year? ”
- *Did visitors interact with others during the game?*
 - 2 of 11 visitors interacted with each other
 - One visitor’s friend said: “make music”
 - One visitor’s friend said: “try sun”

Recommendations from visitors:

- *Controls:*
 - “You need to tell people to hold them. I figured it out after experiencing it. They disappear quicker than I expected”
- *Prompt:*
 - Two visitors suggested to rephrase the prompt.

2. Temperature around the world

Number of users: 2 people

Overall Comment:

- “Controls are intuitive”

- “Simple, interesting and intriguing”

Recommendations from visitors:

- *Explanation*: “Why do some areas have more dramatic changes?”
- *Zoom in*: Wanted to zoom in to see more specific areas, such as some major cities.