

## Resource Card Questions (Optional)

### ***Station 1: Effects of Climate Change on Global Sea Level Rise***

The ocean is currently expected to rise 2 meters by 2100. Set the rise to 2 M (meters) on the map.

- What places on Earth will be most affected by a sea level rise of 2 M?
- Where in the United States will be most affected by a sea level rise of 2 M?
- How will the area you live in be affected by a sea level rise of 2 M?

### ***Station 2: Effects of Climate Change on Glaciers***

- What has happened to the glaciers in these pictures (compare the past picture to the present picture)?
- Why do you think these changes have happened?
- What are some ways that melting glaciers might affect the Earth?
- What are some ways that melting glaciers might affect the people and animals on Earth?

***Station 3: Effects of Climate Change on Risk of Wildfire***

- What does the article tell you about the relationship between climate change and wildfires?
- Why have wildfires increased?
- Identify ways wildfires affect the Earth.
- Identify ways wildfires affect people and animals.

***Station 4: Effects of Climate Change on Animal Life on Earth***

- Describe different ways climate change is affecting animals on Earth.
- What effect has climate change had on the pika? Why?
- What are different ways humans can help animals that have been affected by climate change?
- How will harm to animals due to climate change affect humans?

**Station 5: Effects of Climate Change on Extreme Weather Events**

- Describe the changes in precipitation (rain) in your area, in your state, and in the United States.
- Describe the changes in number of dry days in your area, in your state, and in the United States.
- Compare the low CO<sub>2</sub> emission temperature change map with the high CO<sub>2</sub> emission temperature change map.
- Choose one of the maps and discuss what effect the changes shown could have on the area you live in. Focus on farming, recreation, industry, tourism, and activities you like to do.

**Station 6: Effects of Climate Change on the Amount of Food that Crops Can Produce**

- From 2070 to 2089, what percentage (approximately) of crops is expected to increase (in tan) their production?
- What percentage is expected to decrease (in red) their production?
- What story is the graph telling you?
- Based on the projections on the graph, what are two ways that climate change is expected to affect the amount of food that crops will produce on Earth?
- What are ways less food production will affect the Earth?
- What are ways less food production will affect people?