Scientifically-Interesting Story of Albedo Values in the Cryosphere

Are you looking for a storyline to use with your students that features NASA data that addresses how changes in the Cryosphere are quantified? Consider using the following resources in your classroom today!

- Presentation
- Teacher Script
- Student Handout

Document Resources

- Presentation
- Presentation Script
- Student Handout
Grade Band

- 6-8
- 9-12

Supported NGSS Performance Expectations

- **MS-ESS2-1**: Develop a model to describe the cycling of Earth's materials and the flow of energy that drives this process.
- **MS-ESS2-6**: Develop and use a model to describe how unequal heating and rotation of the Earth cause patterns of atmospheric and oceanic circulation that determine regional climates.
- **HS-ESS2-2**: Analyze geoscience data to make the claim that one change to Earth's surface can create feedbacks that cause changes to other Earth systems.
- **HS-ESS2-4**: Use a model to describe how variations in the flow of energy into and out of Earth's systems result in changes in climate.

NGSS Disciplinary Core Ideas

- **ESS2A: Earth Materials and Systems**

NGSS Science and Engineering Practices

- **Developing and Using Models**
- **Analyzing and Interpreting Data**

Crosscutting Concepts

- **Cause and Effect**
- **Scale, Proportion, and Quantity**
- **Stability and Change**