



# NJSTA Maitland P. Simmons Memorial Award 2022 Summer Institute Observing Earth's Climate from Above

## Lessons for a NGSS Classroom

“Climate change ‘unequivocal’ and ‘unprecedented,’ says new U.N. report.” and “The report paints an alarming picture but emphasizes there is still time for swift action to mitigate the worst of the projected impacts of climate change. (AAAS, 2021) What is the evidence? Where did this evidence come from? This workshop will dig-deep into evidence from data collected using satellites that supports claims that our climate is changing. This workshop will focus on satellite data - how it is collected, and strategies and tools we use to analyze and interpret it to understand our changing climate.

Participants will gain experience accessing, analyzing, and interpreting satellite data in the context of phenomenon-driven, three-dimensional lessons. The workshop will target grade-appropriate knowledge and skills in the science and engineering practices of Analyzing and Interpreting Data, Using Mathematics and Computational Thinking and Engaging in Argument from Evidence to support students in building conceptual understanding of science ideas about Earth's climate.

At the end of this four-day session, participants will have a tool-kit of accessible satellite data sources and digital tools to use to implement lessons using satellite data designed for the NGSS classroom.

Reference:

<https://www.sciencemag.org/news/2021/08/climate-change-unequivocal-and-unprecedented-says-new-un-report>

For further information about this 2022 MPS Memorial Award Summer Institute, please contact Cheryl Zanone [njstasimmons@gmail.com](mailto:njstasimmons@gmail.com).

**Audience:** Teachers of Middle School Science (Grades 6-8)

**Dates/Times:** This **four-day** Institute will take place **June 28–July 1, 2022** from **8:00 a.m.–4:00 p.m.** daily.

*Scholars who are accepted must commit to attend each full day of the program.*

**Workshop Model: Hybrid or Full Virtual** (Tuesday and Thursday are Face-to-Face, and Wednesday and Friday are remote.)

**Location: 2 days TBA if Hybrid**

**Facilitators:** Kate Soriano and Missy Holzer

**Sponsor:** The Institute is supported by the NJSTA Maitland P. Simmons Memorial Award (MPSMA) Endowment. It covers all Institute costs for participants who attend the full 4-day Institute. Daily light breakfast, breaks, and lunch will be included on the Face-to-Face days. Participants, known as MPSMA Scholars, will also receive upon completion of the 4-day Institute:

1. One-year NJSTA membership
2. One-year online access to NJSTA monthly newsletter and resources
3. One-day admission to the October 2022 New Jersey Science Convention
4. Certificate for 30 Professional Development hours

Successful applicants will be notified by May 1, 2022. After May 1, any additional remaining spaces will be filled on a rolling basis and/or a waitlist will be used.

Online applications will be available in January 2022 on the NJSTA website:

<https://njsta.org/2022-Simmons-Institute>