



JPL

Keck
INSTITUTE FOR SPACE STUDIES

Group Projects for 2026 NASA Summer School on Satellite Observations and Climate Models

Lead: Seungwon Lee

Engineer: Alex Goodman

Topic Scientists: Ian Fenty, Ou Wang, Kay Suseli, Angelica Rodriguez, Gary Doran, and Jonathan Hobbs

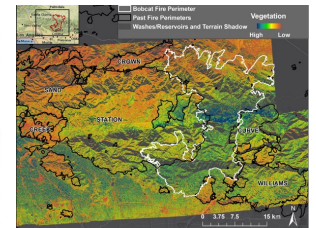
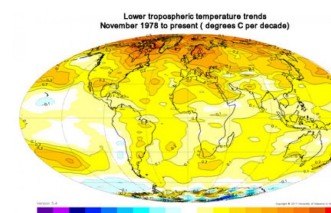
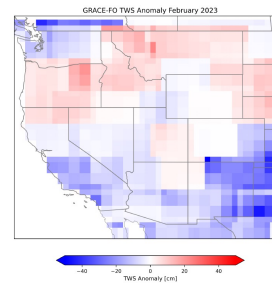
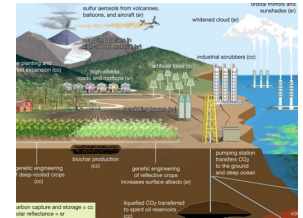
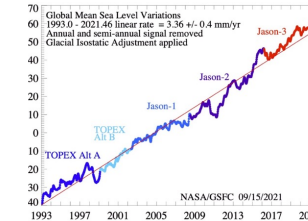
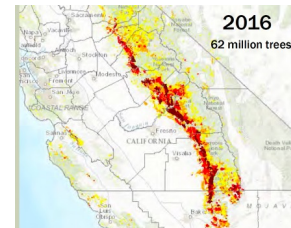
July 8-17, 2026



2021 Summer School
Full Virtual

Group Projects

- Hands-on experience with Earth Science remote sensing data, models, and analysis tools.
- Six group research topics have been designed.
 - Global Warming
 - Marine Carbon Dioxide Removal
 - SWOT Oceanography
 - Tree Mortality
 - Water Cycle
 - Wildfires



Project Webpage

- <https://jpl-cmda.org/ccs.html>
- Group Project topic presentations are available.
- Group Project topic scientist contact information is available.

2026 NASA Summer School Group Projects

Data Discovery → **Data Customization** → **Analysis** → **Reanalysis** → **Publication** → **Reproduction**

NASA Summer School on Satellite Observations and Climate Models brings together the next generation of climate scientists to engage with premier climate scientists. The summer school focuses on the topic of "Using Satellite Observations to Advance Climate Models." Students will explore how satellite observations can be used to evaluate and improve climate models by doing a group project with hands-on exercises.

Students will be engaged in group projects for hands-on exercise of using satellite observation data and climate model outputs for climate science research. In the group projects, the students will explore satellite observation and climate model data to study one of the following five topics:

- [Where is global warming?](#)
- [Marine carbon dioxide removal](#)
- [Ecological forecasting of tree mortality](#)
- [Spatio-temporal variability of the water cycle](#)
- [Wildfire analysis and remote sensing](#)

Project Server (CMDA)

- All relevant datasets and analysis tools are provided in the CMDA server which runs JupyterHub.
- <https://hub.jpl-cmda.org>

Project Schedule

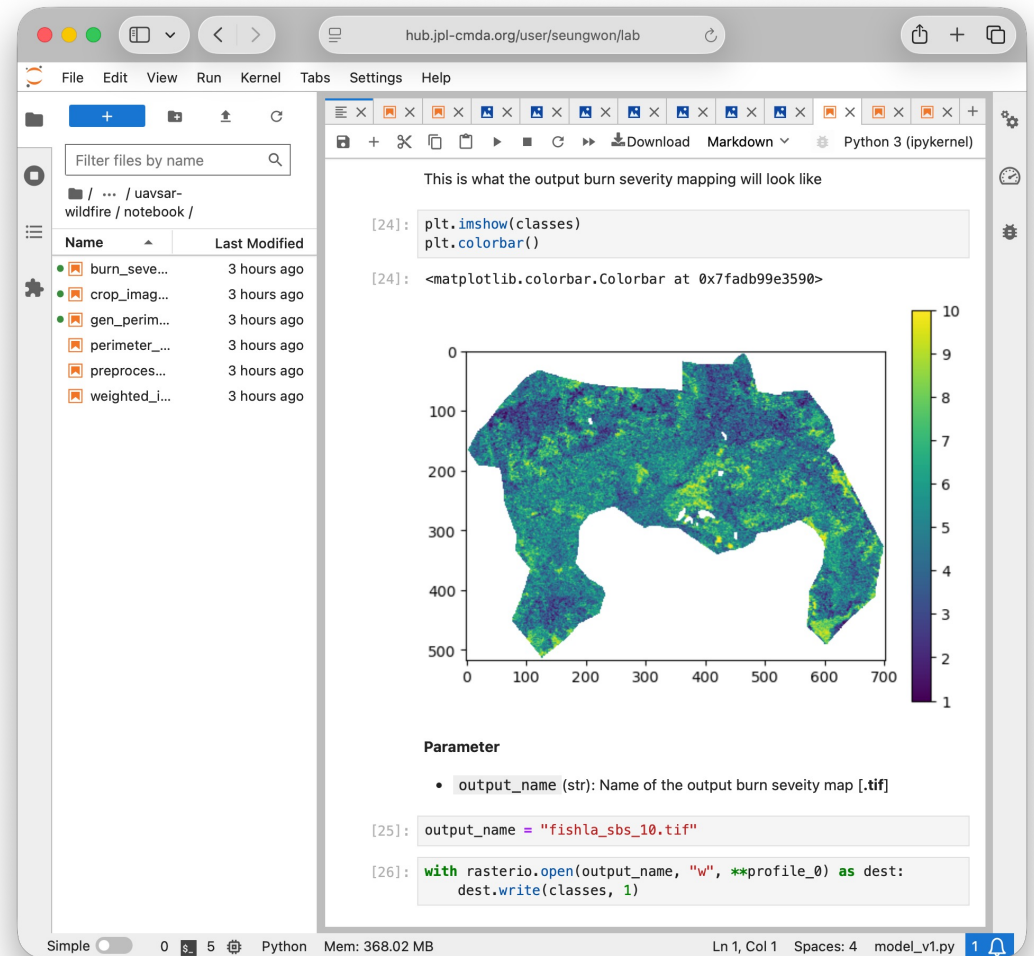
- **Wednesday, July 8 (Day 1)** 9:45AM
Project Introduction and Topic Selection Session
- **Thursday, July 9 (Day 2)** 10:15AM
CMDA Group Project Server Office Hour
- **Monday, July 13 (Day 3)** 4:00PM-5:30PM
Working Session
- **Tuesday, July 14 (Day 4)** 2:00PM-3:00PM
Working Session
- **Tuesday, July 14 (Day 4)** 3:30PM-5:30PM
Working Session
- **Thursday, July 16 (Day 6)** 2:00PM-3:00PM
Working Session
- **Thursday, July 16 (Day 6)** 3:30PM-5:30PM
Working Session
- **Friday, July 17 (Day 7)** 10:30AM
Group Project Presentation Session

Contact Scientists:

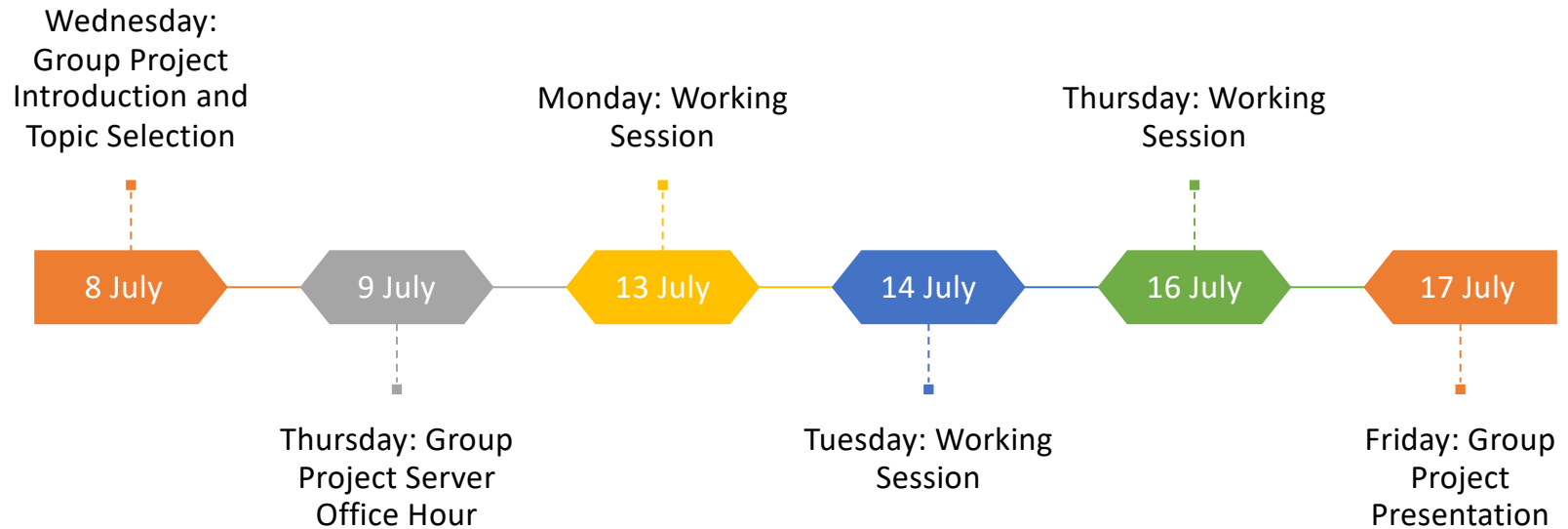
- Seungwon Lee (seungwon.lee@jpl.nasa.gov)
- Alex Goodman (alexander.goodman@jpl.nasa.gov)

Project Server

- Server: <https://hub.jpl-cmda.org>
- Jupyter Hub running on AWS
 - Datasets
 - Jupyter Notebooks
 - Python Packages
- Server Login information
 - Username: your email address
 - Password: nasa-ccs
- Server Office Hour
 - July 9th Thursday 10:15am to 11:15 am
 - Alex Goodman:
Alexander.Goodman@jpl.nasa.gov



Group Project Schedule



Group Project Working Sessions



Group Project Topics

Where is Global Warming?

- Ian Fenty: ian.fenty@jpl.nasa.gov
- Ou Wang: ou.wang@jpl.nasa.gov

Marine Carbon Dioxide Removal

- Kay Suselj: kay.suselj@jpl.nasa.gov

SWOT Oceanography

- Angelica Rodriguez: angelica.rodriguez@jpl.nasa.gov

Ecological Forecasting of Tree Mortality

- Gary Doran: gary.b.doran.jr@jpl.nasa.gov

Spatio-Temporal Variability of the Water Cycle

- Jonathan Hobbs: jonathan.m.hobbs@jpl.nasa.gov

Wildfire Applications with SAR

- Karen An: karen.an@jpl.nasa.gov
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Group Project Topic Selection

https://docs.google.com/document/d/1kT2BQ6UFdmqSCqVmOhPOb_8q6TGOrgHTNvg9RrB4A8/edit?usp=sharing

2026 NASA Summer School Group Formation

Please write your name under the topic that you would like to work on. To help ensure productive group discussions, we would like the groups to be of similar size. As you sign up, please consider the current group sizes and, if possible, choose a topic that helps keep the groups balanced.

Topic 1 Global Warming	Topic 2 Marine CO2 Removal	Topic 3 SWOT Oceanography	Topic 4 Tree Mortality	Topic 5 Water Cycle	Topic 6 Wildfires

Group Project Topic Selection Result

https://docs.google.com/document/d/1kT2BQ6UFdmqSCqVmOhPOb_8q6TGOrGhTNvvg9RrB4A8/edit?usp=sharing

Project Development Team



Please feel free to contact the team
if you have any questions.



Seungwon Lee:
seungwon.lee@jpl.nasa.gov



Alex Goodman:
alexander.goodman@jpl.nasa.gov