



# Virtual Student Workshop

Mapping out the future directions for atmospheric coupling and aeronomy

This meeting is being recorded



Delores Knipp  
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Chair (and on behalf of)  
CEDAR Science Steering Committee (CSSC)  
Smead Aerospace Engineering Sciences  
CU Boulder



Larisa Goncharenko  
MIT Haystack

Student Representatives



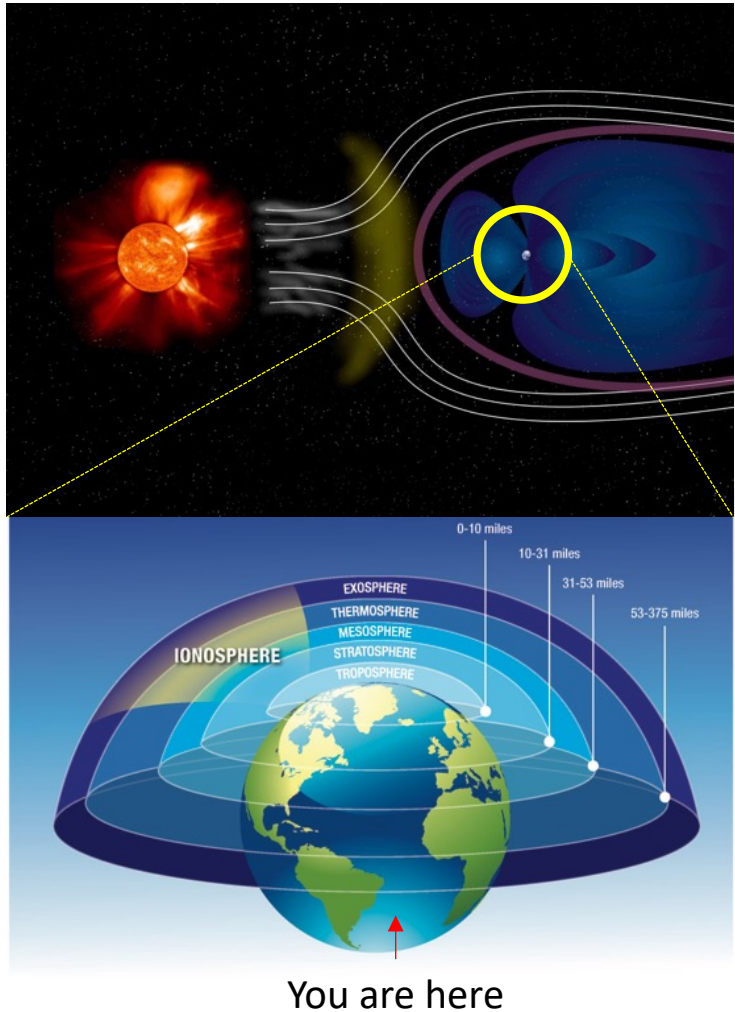
Komal Kumari,  
Clemson University



Meghan Lemay  
Boston University

# CEDAR Virtual Student Workshop

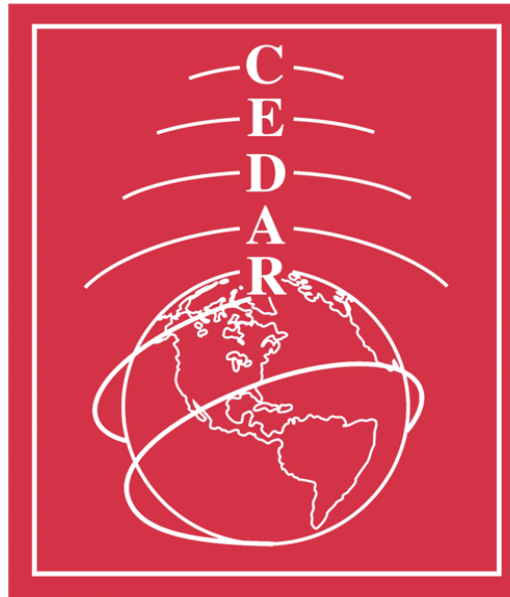
## CEDAR Physical Domain



Images courtesy of NASA

## and Dynamics of

Coupling, Energetics

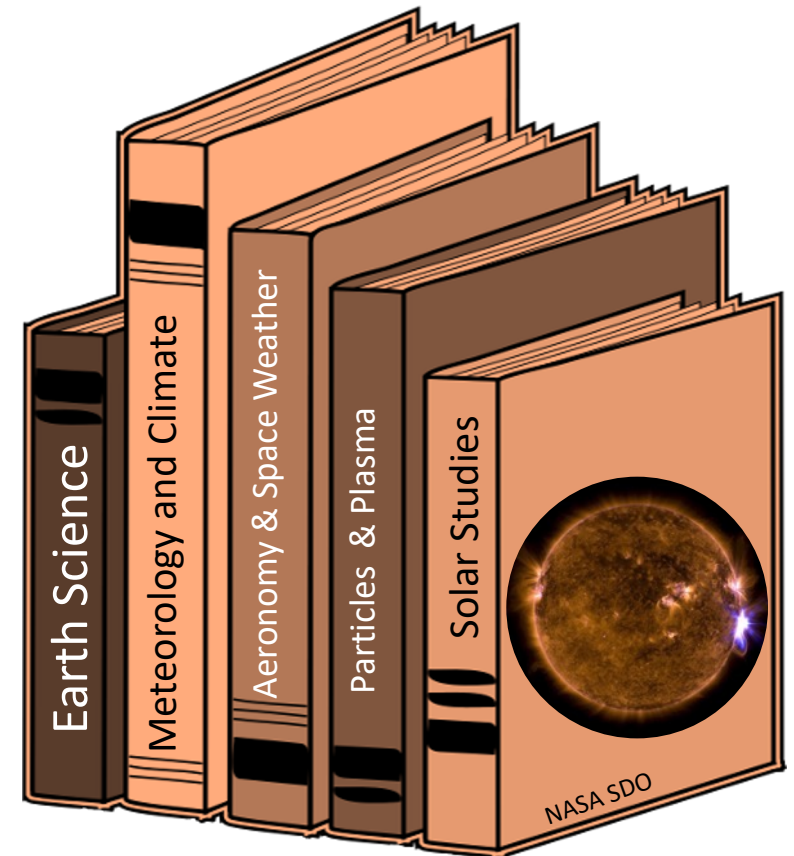


Atmospheric Regions

## CEDAR

Space Atmosphere Interaction Region  
Aeronomy  
Wave and Field Coupling

## CEDAR Science Domain





# **CEDAR Strategic Thrusts**

**Encourage and Undertake a Systems Perspective to Geospace**

**Explore Exchange Processes at Interfaces and Boundaries**

**Explore Processes Related to Geospace Evolution**

**Develop Observational and Instrumentation Strategies for Geospace System Studies**

**Fuse the Knowledge Base across Disciplines**

**Manage, Mine, and Manipulate Geoscience Data and Models**





Places

Processes

Connections/Coupling

Measurements

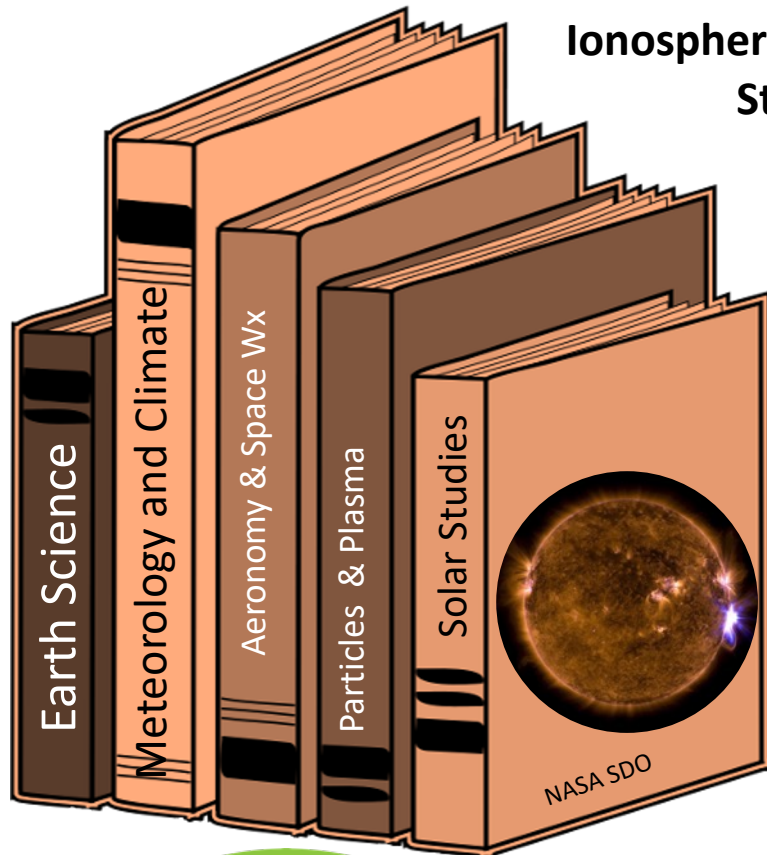
Data Science

Applications

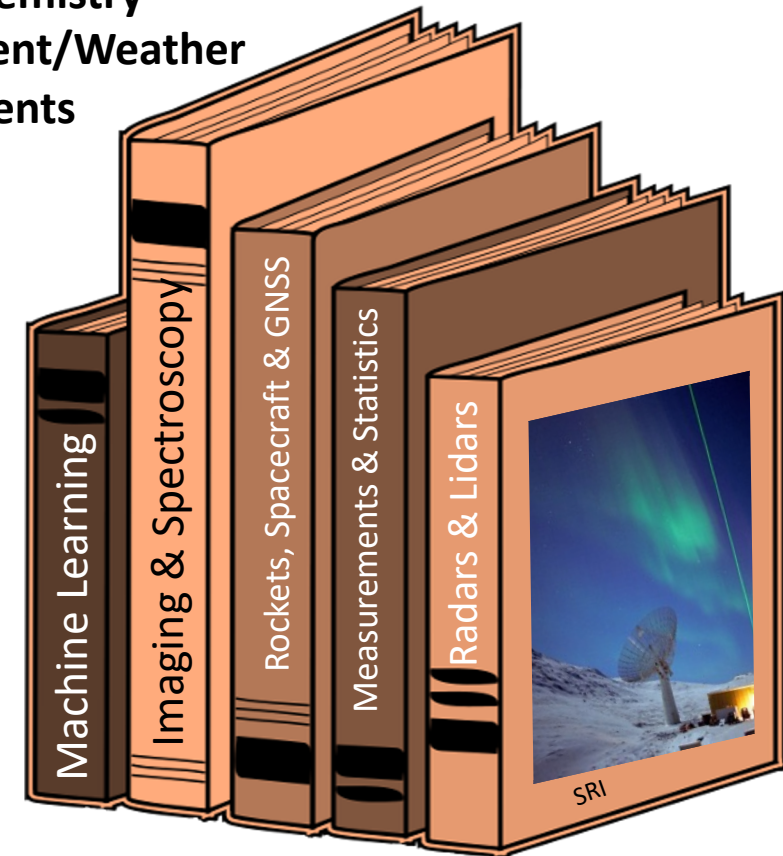
## Virtual CEDAR Cross-Discipline Bookshelf

40 texts relevant to CEDAR

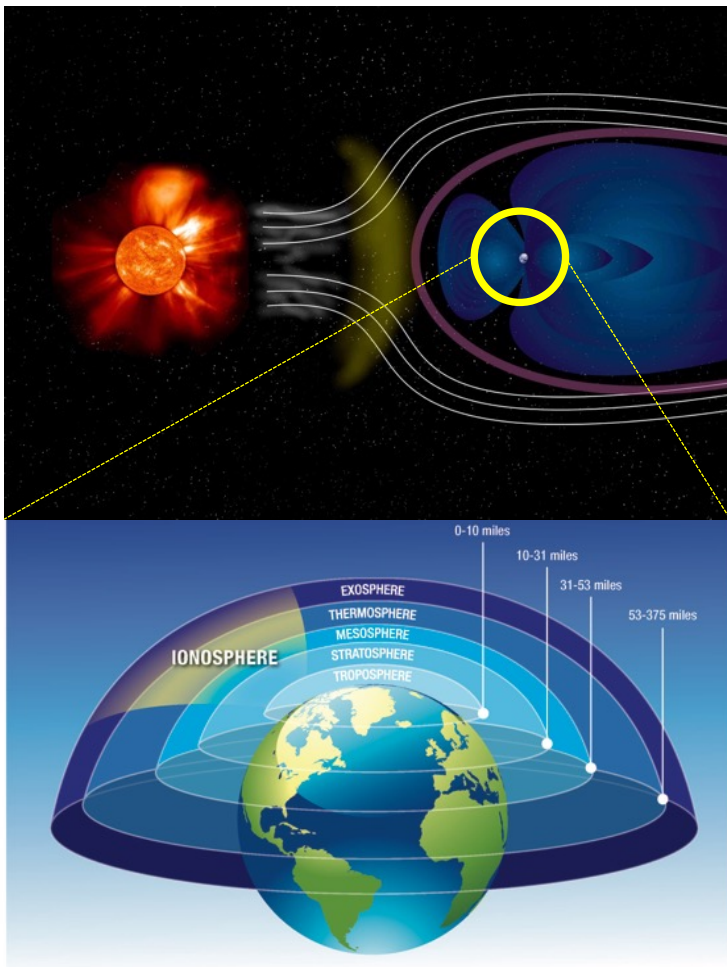
Low-Mid Atmosphere, Tides, Waves, Chemistry  
Ionosphere, Plasma & Field, Space Environment/Weather  
Statistics, Applications & Measurements  
Additional References



Knipp, Cade and Oberheide



[http://cedarweb.vsp.ucar.edu/wiki/images/f/f1/2020CEDAR\\_Knipp\\_Book\\_shelf\\_titles.pdf](http://cedarweb.vsp.ucar.edu/wiki/images/f/f1/2020CEDAR_Knipp_Book_shelf_titles.pdf)



Images courtesy of NASA

# Inclusion and Respect

- **Grand Experiment**
  - Free access for over 200 students
  - Supported by NSF and CEDAR
- **Virtual Mixture of Cultures**
  - Across time zones & national boundaries
  - Across many levels of expertise
- **Welcome and Engage**
  - Use the Slack channel to include others
  - Engage in workshops via Sli.do
  - Participate in DEI Plenary and Workshop
- **Report Inappropriate Behavior**
  - Contact info to report unacceptable and/or unwelcome behavior



CEDAR2021 Virtual  
Meeting Code of  
Conduct

**Learn, Communicate, Share, Enjoy!**