
Lab 4: Temperature feedbacks

In this lab, you will predict how different influences will interact with the atmospheric energy budget and affect the surface temperature.

Activity

A feedback diagram for the atmosphere's energy budget, which includes solar energy input, longwave radiation from the earth, and an atmospheric greenhouse effect from CO₂ is provided. At each station, you will add feedbacks between a new influence and the atmosphere to determine how the new influence affects the atmospheric energy budget and, ultimately, Earth's surface temperature. Create and analyze a feedback diagram for each influence.

Grading

Submit your feedback diagrams (20 points) and participate in the class discussion (5 points).