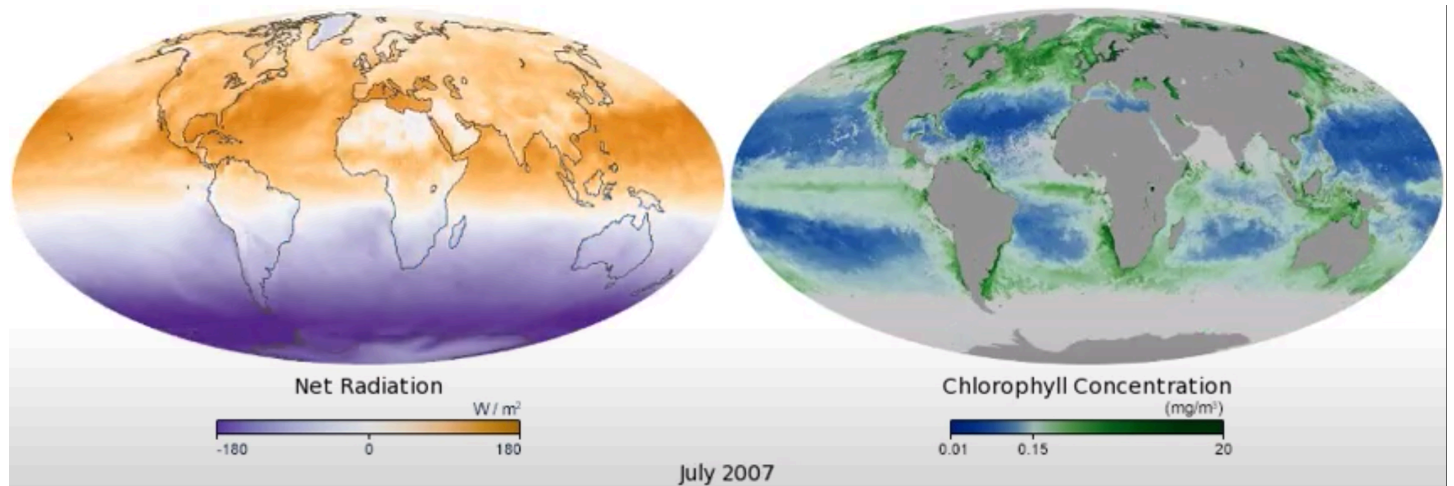


My NASA Data - Mini Lesson/Activity

Using Models to Explore Chlorophyll and Radiation Data



Student Directions

Review the video, [Chlorophyll and Net Radiation](#), and answer the following questions.

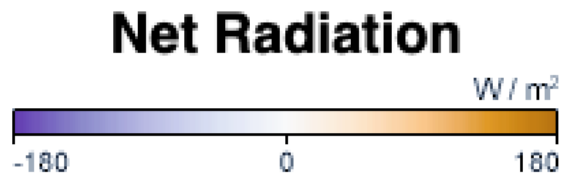
[Video: Chlorophyll and Net Radiation](#)

Video

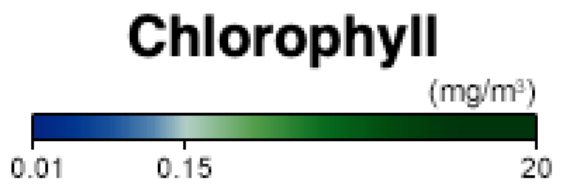
Chlorophyll and Net Radiation | <https://www.youtube.com/watch?v=cPkBAD4Mn3Q> | Source: NASA Earth Observatory

Steps:

1. Check with your instructor on how to submit your answers.
2. Review the color bar scale for net radiation. What do the colors mean?



3. Review the color bar scale for chlorophyll concentration. What do the colors mean?



4. Describe the values for net radiation during the spring and fall in the Northern Hemisphere.
5. List the value of net radiation in the Northern Hemisphere during the summer, then list the value of net radiation in the Northern Hemisphere during winter. What do you notice?
6. Describe the patterns you observe between net radiation and chlorophyll concentration?
7. Observe the contrast between the Northern Hemisphere and the Southern Hemisphere in net radiation values. Which two seasons experience a greater difference? Fall and spring or summer and winter? Explain.

Teachers, these mini lessons/student activities are perfect "warm up" tasks that can be used as a hook, bell ringer, exit slip, etc. They take less than a class period to complete. Learn more on the "[My NASA Data What are Mini Lessons?](#)" page.

Teachers who are interested in receiving the answer key, please complete the [Teacher Key Request and Verification Form](#). We verify that requestors are teachers prior to sending access to the answer keys as we've had many students try to pass as teachers to gain access.

Visualization Tool

- [About the Earth System Data Explorer](#)