

Grand Canyon Microclimatology: Overview

Summary of Grand Canyon Microclimatology:

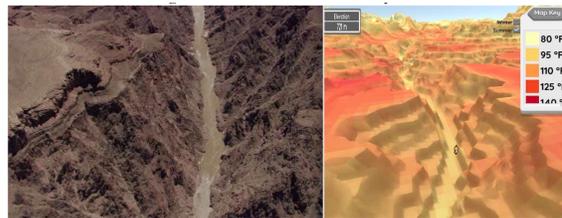
You can return to the quizzes (resume) after you start - to enable you to take screenshots and ask questions using those screenshots. The exception to resuming is the tutorial quiz; you have to finish that in one sitting (but you get 7 attempts).

The video on the right is a brief overview of the structure of all of these activities.

GPH112 Grand Canyon Microclimato...

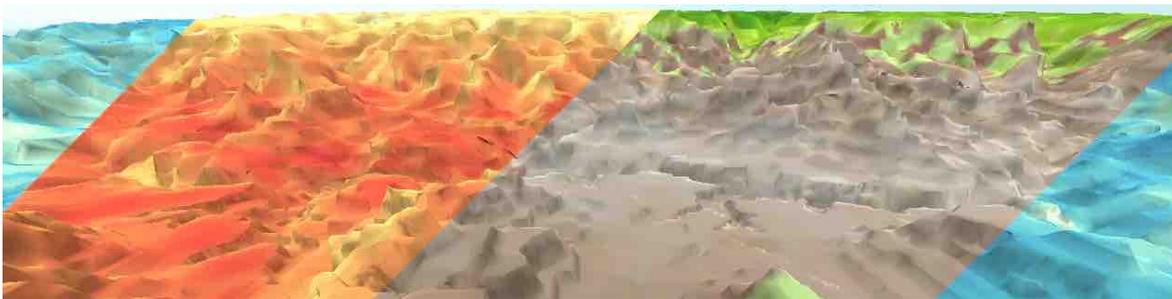


Those teaching physical geography have struggled with communicating the wonder and joy of our science. We want you to be fascinated by interpreting real scientific data and in the process come to appreciate Earth's natural beauty. At the same time, we must meet lab science criteria where students understand issues like the limitations of data and how energy transfers modify Earth – while staying true to the beauty and elegance of our planet. That's our goal.



Helicopter view of the inner gorge of the Grand Canyon and matching Landsat surface temperature data for July.

We think we have a unique balance in this lab, where you get to be amazed at the Grand Canyon's diversity of microclimate and vegetation, and how this diversity links intricately to the topography. We like to think that the balance of science and aesthetics will charm you. At least we hope so. The graphic developed by Two Bent Coppers for the geovisualization purchase website symbolizes the diversity of real scientific data merged with topography showing winter surface temperature, summer surface temperature, and biomass abundance (brown to dark green)



This is the site where you purchase the geovisualization.

https://gamejolt.com/games/2BC_GrandCanyonMicroclimates/465635

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The structure of the microclimate and vegetation of the Grand Canyon modules matches the others. You start out viewing this page (done). Then, you have to complete a tutorial quiz at 100% (you get 7 attempts).

Then, you have to submit the quiz based on a lecture about the Grand Canyon's microclimates and vegetation.

Finishing these tasks will then gain you access to these main geovizualization labs:

⋮  **Grand Canyon Microclimatology: Helicopter Data Tour**
8 pts | [View](#)

⋮  **Grand Canyon Microclimatology: GeoFinder**
2 pts

⋮  **Grand Canyon Microclimatology: Summer and Winter Hiking Gradient**
4 pts

⋮  **Grand Canyon Microclimatology: Biomes**
8 pts

⋮  **Grand Canyon Microclimatology: Plant Stresses**
6 pts

⋮  **Grand Canyon Microclimatology: Treelines**
9 pts
