

Name:

Mini-Quiz 2

BIOL 4301/6301

September 14, 2023

- 1 Two changes in climate that are happening globally are rising temperatures and an increase in precipitation variability. Knowing what you know about the Earth's energy budget, why might these changes be occurring?**

- 2** Should we expect ongoing climate changes to differentially impact different biomes? Provide an example to explain your answer. (hint: use a systems diagram!)

3 Lubbock can get pretty hot and may get hotter still in the future. You are approached to help reduce the heat on campus with a \$1,000,000 budget. Name three ways you could reduce Lubbock heat using what you know about the energy balance.

4 How might your three ideas influence the water cycle?

5 Let's think bigger! Use the energy balance equations to reduce global warming (by doing something other than sucking GHGs out of the atmosphere). You have an unlimited budget.

6 Would this 'solution' have any cascading effects?