December 6, 2019 MSE 2101 topics

- The concept of a habitable zone
- Will Earth freeze or burn if it moved ±1 mile?
- Being in the habitable zone does not guarantee habitability
 ... and vice versa!
- Habitable zones evolve
- Are Venus, Earth and Mars in the habitable zone?
- Why is Venus so hot? (yes, I know you know this already!)
- Why did Venus keep its carbon dioxide?
- Ok, but why does Venus not have water?
- The runaway greenhouse effect a broken CO₂ cycle!
- Sooo... could young Venus have had oceans and even life?
- The boundaries of the habitable zone today
- The time evolution of the habitable zone
- The *continuously* habitable zone
 - ... until the CO₂ cycle breaks down (or is broken down)
 - how long do we have?