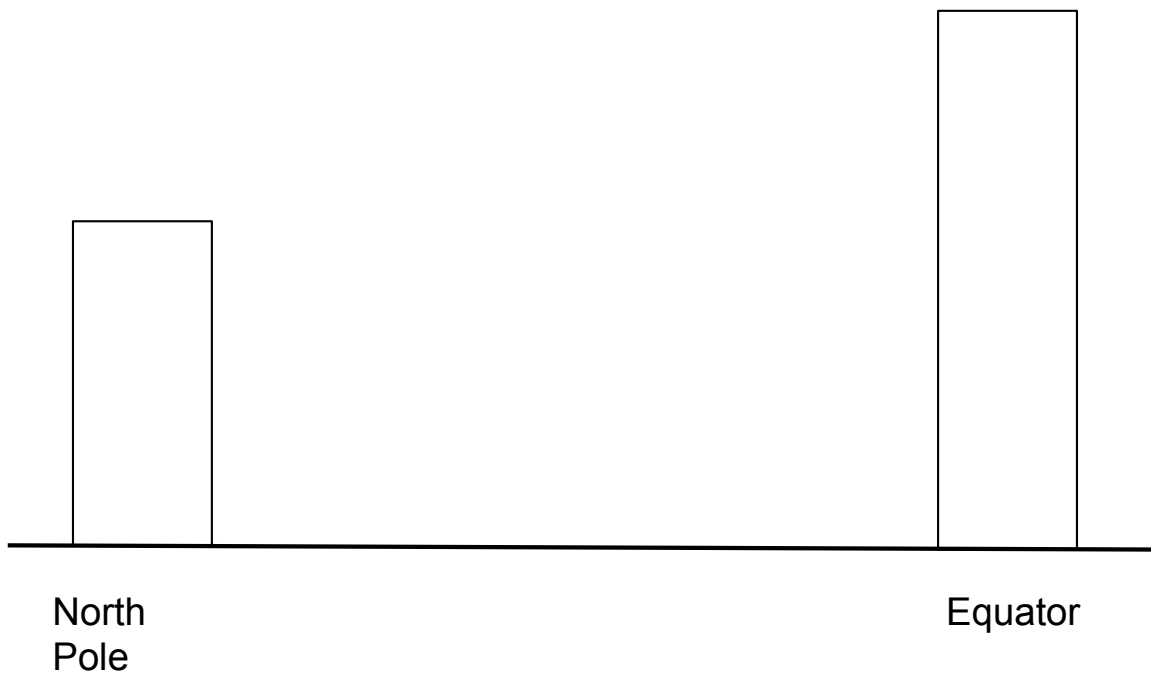**ATMO 1300 Section 001**
In-class Worksheet #4
July 21st, 2017
Chapters 5, 7, and 9

1. a) What are three main imagery that satellites produce, i.e. images we can look at as observers?

b) Visible satellite imagery shows where objects in the atmosphere and below the satellite reflect visible radiation from the sun. What types of clouds will show up bright? Which cloud types will be hard to see? (hint: think about how much water vapor is in clouds)

2. Draw a basic Hadley Cell model with accompanying High/Low pressure and wind circulations. It may also help to label where it's warmer and where it is colder.

North
Pole

Equator

3. How do radars observe objects in the atmosphere?

a. Does a bigger object reflect more or less radiation back to the radar? What does this tell the radar about the object?

b. What famous "effect" tells a radar the direction an object is moving, relative to the radar beam?

4. What is required of a region to be considered a good air-mass source?

a. Where is a good air-mass region around the globe? Name two and the associated air masses.

b. What are some examples of poor air-mass source regions?