

Sample Questions - Physical Geography Midterm:

- Which of the following has the lowest *albedo*?
 forest asphalt
 snow grass
- During the summer, what happens to the Northern Hemisphere relative to the Circle of Illumination?
 It spends more time (a greater angle) within the lit side so the days are longer.
- As you fly east from Tokyo to San Francisco what happens to the date?
 Subtract a day from your calendar.
- What is the most important factor that controls the seasonal distribution of precipitation in tropical wet-dry (Am & Aw) climates?
 N-S shift of STH & ITCZ.

- The longest days of the year in the Northern Hemisphere occur during what season in the Southern Hemisphere?

winter in Southern Hemisphere.

- Using the figure at right, on the last seasonal change, Dec 21, where were the Sun's rays directly overhead at local noon?

C - Tropic of Capricorn.

- What was that event called (on Dec 21)?

December Solstice.

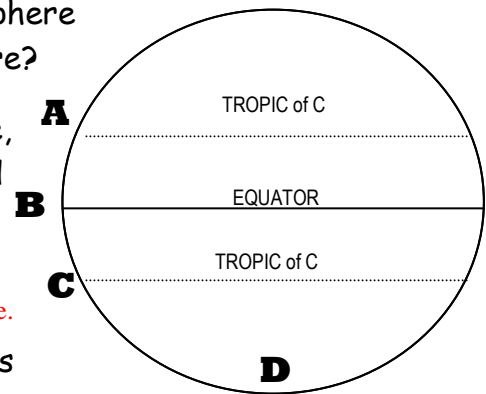
- The air that is forced to rise over another air mass is called:

Orographic lifting

Frontal lifting

Convergent lifting

Rossby lifting



- What is located at 30°N, 90°W? what's left of New Orleans...
- What accounts for the BW climate in northern Africa? under STH
- What time is it in London if it is 3pm in New York? 8 pm

- What does a strong PGF create? Strong winds.
- Is the ITCZ a low or a high? Why? a Low - from rising air warmed at the equator.

- A cold front is approaching - what can you expect the weather to be like?
 Temperatures will drop and a sudden line of storms may come in at the squall line.
- What does a cold front look like on a weather map?

- What does most of the damage in a hurricane?

the Storm Surge.

