Your Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Partner’s Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Challenge: The Coriolis effect and the six-cell global circulation model and the Indian Monsoon.**



Complete the diagram above by placing the information below in its correct position on the above globe.

1. ITCZ 2. Subtropical high 3. Horse latitudes

4. Wind vector direction: 5. Wind vector direction:

(all that apply) (all that apply)

6. Wind vector direction: 7. Wind vector direction:

(all that apply) (all that apply)

Oceanography Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Explain the Indian monsoon.

* Use the maps below to help illustrate your explanation by showing the position of the ITCZ during the dry and wet monsoons.
* Add arrows to show prevailing wind directions over the Indian subcontinent.
* To the right of each map, add a cross-sectional sketch that shows the influence of surface wind direction on cloud formation or dissipation.

Dry Monsoon



Wet Monsoon



Describe, with at least 2 examples from the videos we watched in class, of the ways Indian people's lives are so influenced by the shifting ITCZ.