

Questions: Climate and Ocean Dynamics

1. How does the Coriolis acceleration deflect the winds in each hemisphere?
2. What is circulation around a Low/High Pressure system called (in either hemisphere)?
3. Geostrophic flow is a balance between what two quantities?
4. Geostrophic flow is responsible for what kind of weather phenomena?
5. What is the name for an ocean layer in which the temperature changes rapidly?
6. What is the Ocean Conveyor?
7. Which longitudinal direction do surface/deep currents flow in general?
8. Name some of the world's major currents
9. What are forces determine the direction of ocean currents?
10. What is the unit of measurement for Ocean currents?
11. Name some phenomena of interest to climatologists
12. What are the typical time scales for climate studies?
13. Name some of the dynamical atmospheric climate modes
14. What is the term for the spatial scale on which weather is studied?