

Chapter 7 review sheet

- a. Surface currents are originated by
winds density variations earthquakes ocean water salinity
- b. Northern hemisphere gyres rotate:
clockwise counterclockwise there are no gyres in the northern hemisphere
- c. Which boundary currents are "intensified"?
northern eastern southern western
- d. The Ekman transport in the southern hemisphere is:
parallel to the wind 90° east to the left of the wind
90° to the right of the wind vertical, from surface to depth
- e. reasons for downwelling include:
diverging water masses absence of a pycnocline
tsunamis pollution the Coriolis effect
- f. the only current that moves around Earth without obstacles is the
Gulf Stream East Wind Drift California Current
West Wind Drift Kuroshio Current
- g. Warm- and Cold-Core rings are found in the:
Gulf Stream East Wind Drift California Current
West Wind Drift Kuroshio Current
- h. The ocean water mass with the highest density is the:
Antarctic Bottom Water Mediterranean Intermediate Water
North Atlantic Deep Water California Current none of these
- i. Which of the following is true? Without downwelling.....
There would be no life in the ocean There would be no surface currents
There would be no oxygen at the ocean bottom
There would be no volcanic activity at mid-ocean ridges
There would only be food for small animals but not for big ones like whales and dolphins