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Oceanography Vocabulary

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| **Across**  **2.** warm surface current in equatorial eastern Pacific that occurs periodically around Christmas time  **10.** describes the speed and direction of flow of surface waters at various depths. Starts at 45°.  **11.** is the name for a model of the large system of ocean currents that affects weather and climate by circulating thermal energy around Earth.  **12.**  ‘push’ surface waters toward the equator  **13.** are a type of vertical current that carries water from the surface to deeper parts of the ocean.  **15.** extend to about 400 m below the surface, and they move as fast as 100 km/day. | **Down**  **1.** is a narrow, powerful surface current which flows away from the shore. •It is caused by pressure building up from uneven buildup of water from waves.  **3.** is a warm-water current that affects coastal areas of the southwestern United States by transferring lots of thermal energy and moisture to the surrounding air.  **4.** influence the formation of ocean currents and the direction they move.  **5.** is the overall water movement due to Ekman spiral, is 90º from the wind  **6.** is the movement of wind and water to the right or left that is caused by Earth’s rotation.  **7.** is a large volume of water flowing in a certain direction.  **8.** ‘push’ suface waters toward the poles  **9.** are large circular-moving loops of water  **14.** is the vertical movement of water toward the ocean’s surface. |

   Ocean Current       Surface Current       Prevailing Winds       Rip Current       Coriolis Effect       Upwelling       Density Current       Gulf Stream       Great Ocean Conveyor Belt       Ekman Spiral       Ekman Transport       Trade Winds        Westerlies       Gyres       El Niño