

Solutions

Each answer shows the steps, then the **result**.

2.1

- Eastward

2.2

- It is suppressed (reduced)

2.3

- In La Niña the trade winds strengthen and upwelling off South America is stronger (the opposite of El Niño)

3.1 A

- upwelling and nutrients decrease

3.2

(a)

- The trade winds weaken, so warm surface water spreads eastward across the Pacific

(b)

- Warm water suppresses the cold nutrient upwelling, so plankton decline and fish populations crash

3.3

- Upwelling brings cold, nutrient-rich water to the surface, fueling plankton growth that supports fish and the whole food web