

# Ocean – Atmosphere Interactions

**Normal:**

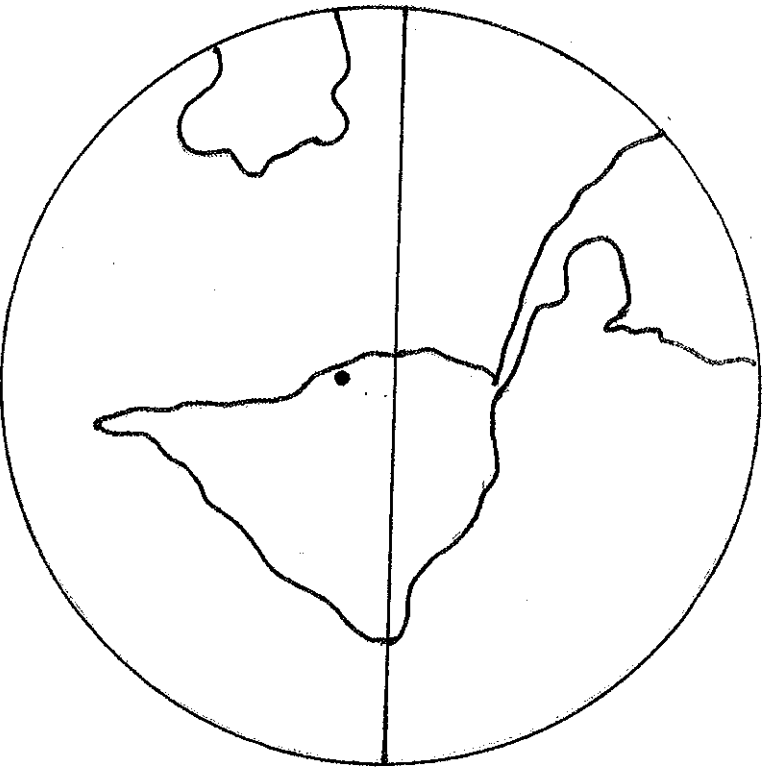
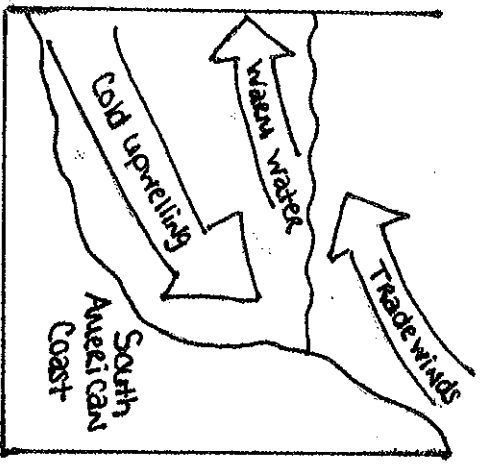
On the map, label

- South America
- Peru
- Tropical East Pacific

Indicate the normal location and direction of the SE tradewinds in red

On the upwelling diagram

- Color tradewinds and warm water red
- Color upwelling blue



**During ENSO:**

1. SE trade winds weaken
2. Warm water expands eastward
3. Westward ocean currents slow, stop, or reverse
4. Warmer surface water temperatures and weak tradewinds prevent nutrient-rich upwelling

Name 2 environmental and 1 economic effect of El Nino:

Environmental

Economic