2. Figure 11.14 is a portion of the Cayucos, California, 1:62,500 quadrangle, which is about 15 miles northwest of San Luis Obispo.

a. Where would you go to see a rocky beach? Morro Strand State Park (north) A sandy beach? Morro Bay State Park (south) (Hint: See the table of topographic map symbols in Chapter 6.)

What coastal landform is represented by the small circular land areas just offshore 2 to 6 km northwest of Morro Beach (for example, Whale Rock)? Oil platforms

b. What is the landform on the west side of Morro Bay, labeled Morro Bay State Park? A knob or hill (neck of an ancient volcano)

Morro Rock is shown as an island on older maps. What landform now connects Morro Rock to the mainland? Tombolo

What happens to Morro Creek as it approaches the coast? Explain. It is a disappearing river. The water just sinks into the sand How might this situation change during a period of abundant rainfall? The river will flow all the way to the sea.

c. What does the pattern of dots in Morro Bay indicate? Sand (Hint: See the table of topographic map symbols in Chapter 6.)

What depositional feature is the swampy area on the east side of Morro Bay? Marsh/swamp

What does the future hold for Morro Bay? Deposition may continue but a large volume of water will clean it out

d. In what direction is the longshore drift in the area between the town of Morro Beach and the bottom of the map, as indicated by (1) the breakwater and (2) two different natural landforms (specify each)? Both the spit and tombolo indicate longshore drift from south to north What is the evidence? They are elongated to the north.