

Oceanography 10 Lab Key

Lab #1

- a. 80.5 km
- b. 2.356 mi
- c. 7719.8 m
- d. 14.83 mi
- e. 6274 f
- f. 29 km
- g. 8856 ft (8839 if you use 5,280ft/mi)
- h. 5579 m
- i. 1.09 mi
- j. 90.2 km
- k. 23780 m
- l. 3.35 km
- m. 69.9 f
- n. 22379 m

Lab #2

- 10 40x
- 11 15x
- 12 2.93 km
- 13 3.68 sec
- 14 0.53 km
- 15 87.17 nm
- 16 7.12 nm
- 17 2475.7 f (using km>mi>ft>f)
- 18 15.22 kts
- 19 1.84 sec
- 20 6.375 km = a trench
- 21 750ft, 125f, 0.23 km
- 22 0.31sec
- 23 1.04 nm
- 24 4:46:16 am
- 25 ~1,000 nm, mid-ocean ridge, ~50 hrs

Lab #3

- 7 36° 57' 06" N, 122° 01' 36" W
- 8 36° 51' 03" N, 121° 48' 42" W
- 9 36° 38' 00" N, 121° 56' 00" W
- 10 36° 37' 36" N, 121° 54' 54" W
- 1 152°mg, 332°mg, 19.6 nm, 1hr 34 min
- 2 Bend in S.C. Wharf
- 3 Soquel Cove
- 4 36° 56' 54" N, 122° 03' 54" W; 36° 53' 30" N, 121° 50' 03" W
- 5 126°mg, 306°mg, 1.2 nm, 7f/42 ft
- 6 147°mg, 327°mg, 6.65 nm, 100f/600 ft
- 8 36° 56' 36" N, 121° 57' 40" W; 10f 60 ft; 104°mg; 284°mg; 2.23 nm; 30 min
- 9 13.65 nm, 118°mg, 10 nm, 203°mg, 4.5 nm, 145°mg, 28.15 nm
- 10 281 mg, 8.38 nm, 50.3 min
- 11 36° 38' 36" N, 122° 00' 18" W; 60 f; 7.15 kts
- 12 3 nm; [36° 51' 12" N, 122° 03' 48" W]; [36° 48' 12" N, 122° 03' 48" W]; S.C. Harbor; 2° mg; Stack 75°mg; 55f; 9.85 nm; 7 nm

Lab #4

- 11 26.79 mya

Lab #6

- 13.a. ~1.7 million yrs, b. 6.2 million yrs
- 14 128.5 meters
15. 563.3 meters
- 16 3.1 cm or 31 mm

Lab #7

7. 2 m
19. 6.75 meters, 1.13 m, 2.6m/s, DWW, SWW, SWW
20. 5.74m, 2.93m, 2.61m/s
21. 680km/h, Tsunami
22. 23.48 days
- 23 37.7 hrs
- 24 1.575 m
- 25 1.83 m/s, 23.42 days, 158.16 km

Extra Problems at END of Lab #2

1. 100 km
2. 16.8 min
3. 31.2 min
4. 23.1 hrs, 2.88 days
5. 6.4 days
6. 4.3 min