

Assignment 6

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1 Problem 1

As already seen in the lecture, Kelvin waves are an important type of waves for the coastal upwelling and general ocean dynamics. In this assignment recall the important properties of the Kelvin waves.

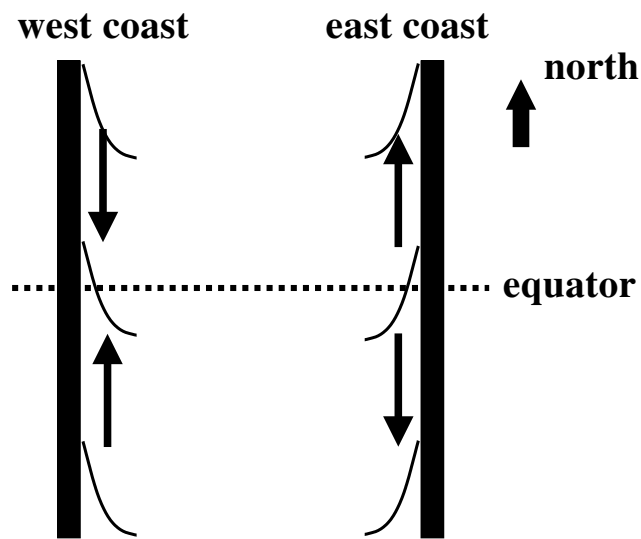


Figure 1: Sketch of the propagation of Kelvin waves.

- (a) Figure 1 summarizes the properties in a schematic way. Discuss the influence of the hemisphere and the position relative to the coast (coast left or right, distance to the coast) on the propagation direction and the surface elevation.