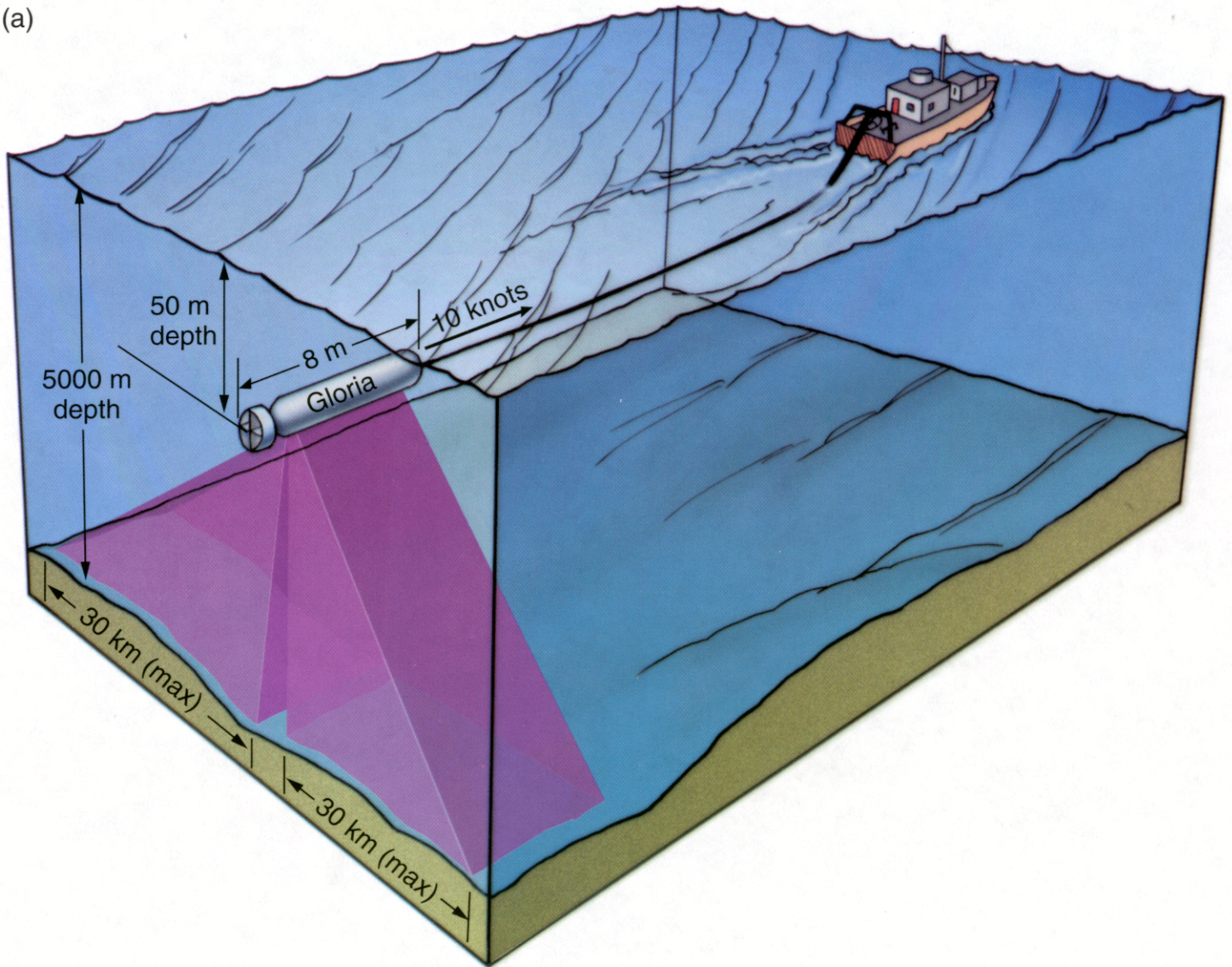
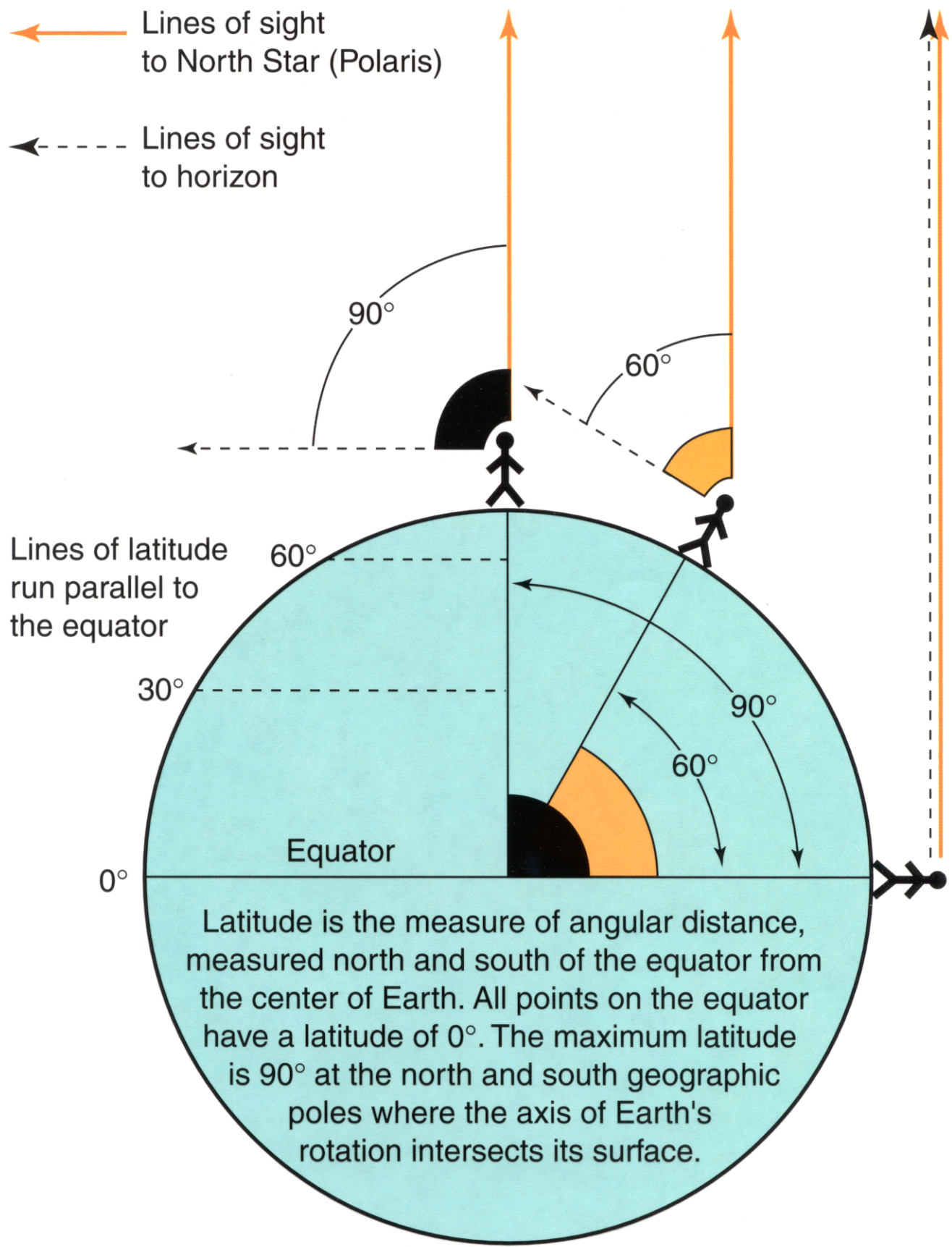


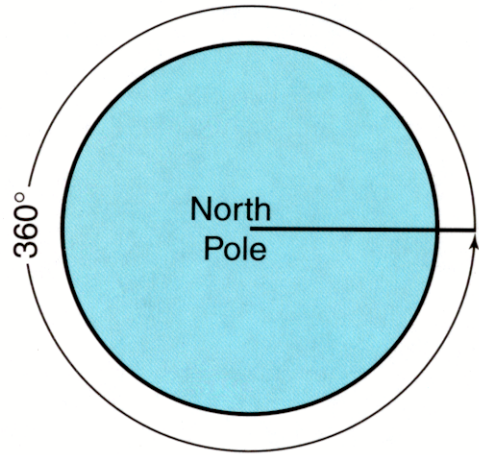
# 4-5a GLORIA system for side-scanning sonar surveys

(a)

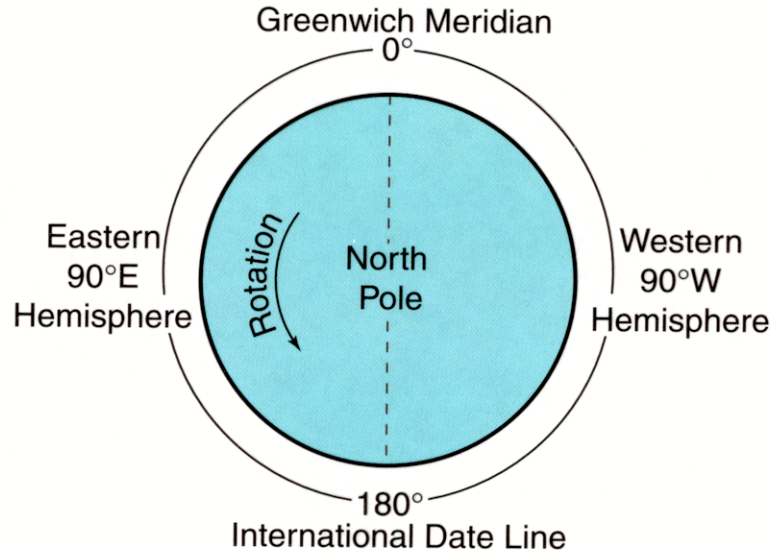




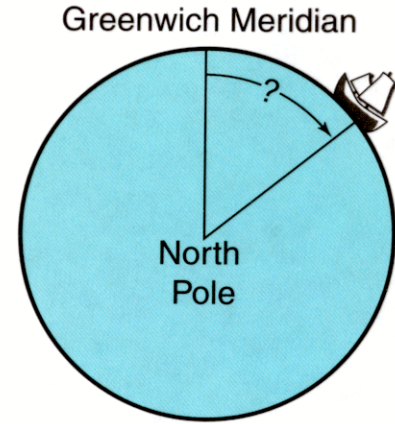
APP II, Fig 2 Determining Longitude



(a)



(b)



(c)