**CHAPTER 3 TUTORIAL QUESTIONS**

* 1. What is the coordinate system for this feature class?
  2. Which units does it use?

1. What are the coordinates for the southeast tip of Florida?
   1. What are the map units of this frame?
   2. What are the display units?
2. What are the coordinates for Florida’s tip now?
3. What are the map units for this Mercator projection?
   1. Which continent has primarily negative ‘x’ AND negative ‘y’ coordinates in this projection?
   2. Which ones has primarily positive ‘x’ and ‘y’ coordinates?
4. Why did this warning appear?
5. Sometimes ArcMap automatically chooses a datum transformation for you. Will it do so in this case? Why or why not?
   1. What longitude is the central meridian?
   2. What is the latitude of origin?
   3. What are the standard parallels?
6. Examine the standard parallels and the latitude of origin, and predict whether any areas of the United States have negative ‘y’ coordinates in the projection. Why or why not?
   1. Is this Equidistant Conic projection a tangent or secant projection?
   2. How can you tell?

Tutorial step #22: write the coordinate system and datum of the layer here:

**STOP** after Tutorial step #39