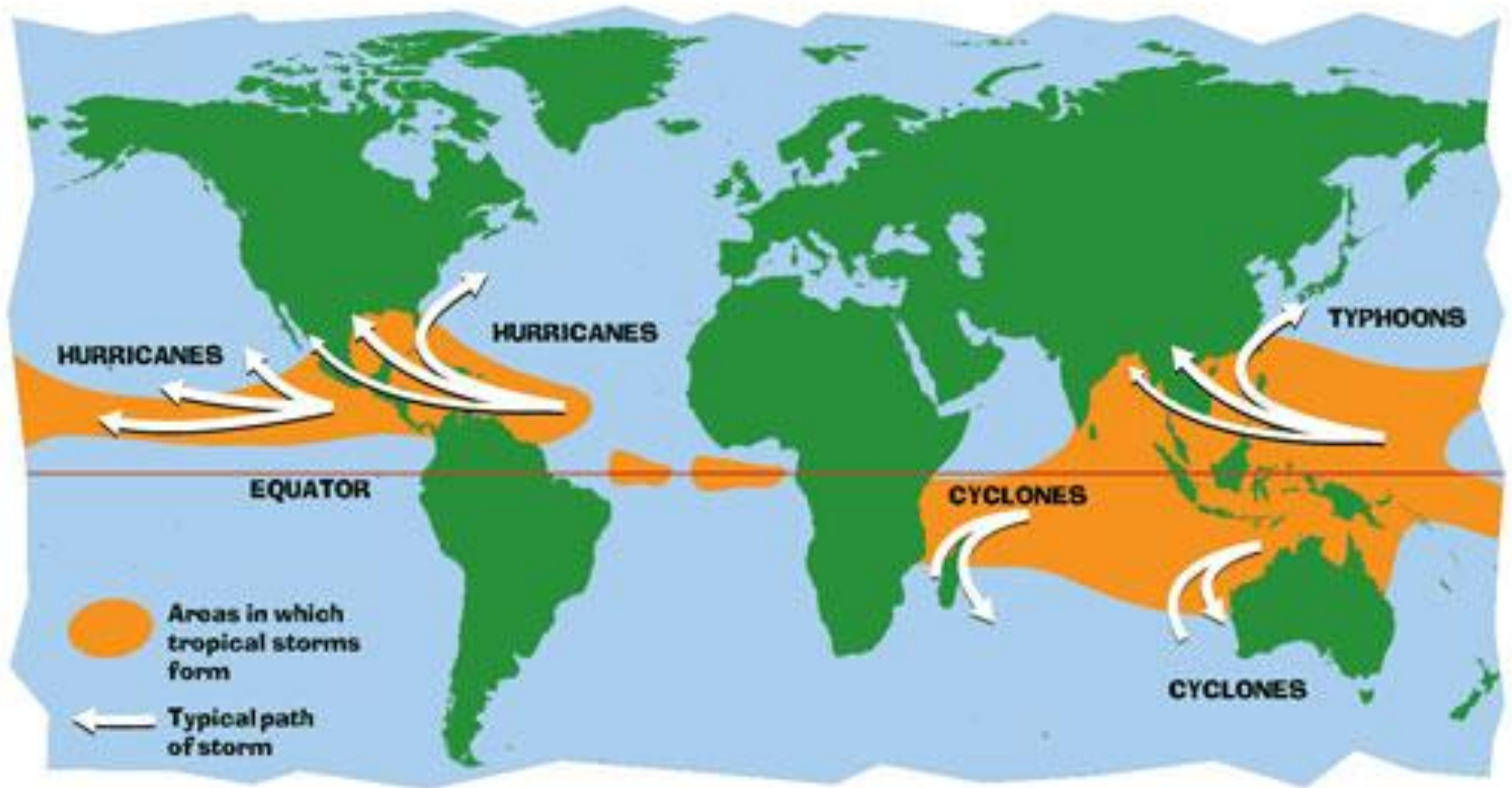


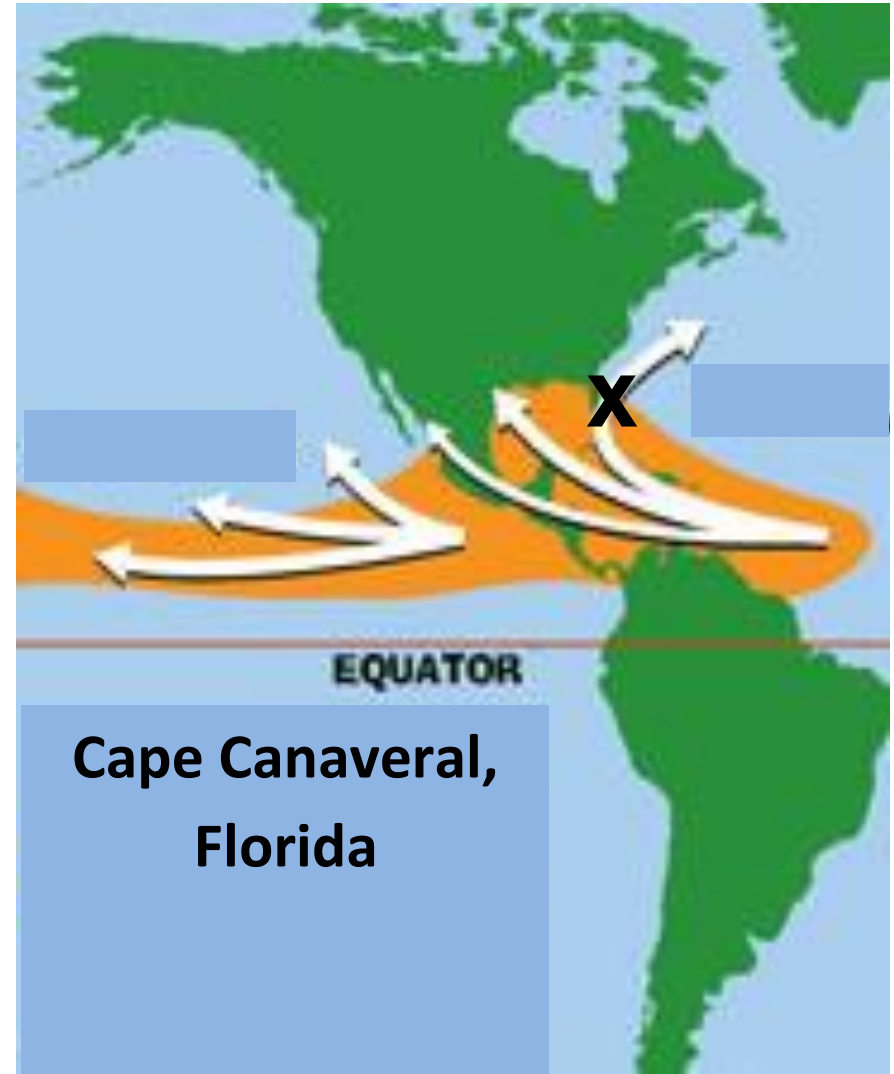
### **An ideal model of a simple gravity pendulum.**

A "massive bob" suspended by a "massless rod" from a "frictionless pivot," without air friction. When given an initial impulse, it oscillates at constant amplitude ( $\theta$ , theta), forever.

The "equilibrium position," hanging perfectly vertically, is indicated in dashed lines.

Source: 2008 Chetvorno, Wikimedia Commons [http://commons.wikimedia.org/wiki/File:Simple\\_gravity\\_pendulum.svg](http://commons.wikimedia.org/wiki/File:Simple_gravity_pendulum.svg)





Source (map): NASA <http://pmm.nasa.gov/education/articles/how-do-hurricanes-form>

Source (shuttle photo): NASA <http://www.nasa.gov/audience/forstudents/k-4/stories/what-is-the-space-shuttle-k4.html#.Up0YjcRDuuN>

