Name_____ **Snapshot '07 Physical Setting Data** **Location**_____

(including tides and currents)

Time :_____

1. **Location**: We will be comparing data with other groups along the Hudson, so it is important to note our exact location. Location Name _____
   Using your Hudson River Estuary map, give your location in ***river miles***: _____ and if possible

   GPS Latitude:_____ GPS Longitude: _____

2. **Tides**: Tides cause the water of the Hudson River to rise and fall due to the gravitational pull of the sun and the moon. Tides can be measured over a 30 minute time with a **Tide Meter Stick**, or another marker and find out whether the water is rising, falling, or staying the same. First, record the time, and then check the water level using your measuring stick. Check the stick again 30 minutes later and record.

   Start time: _____ Water height in cm._____(if on a dock measure down from the dock)

   Check time: _____Water height in cm._____ rising falling unchanged
   (circle one)

3. **Currents**: In what direction is the water moving? A current is moving downriver is called the ***ebb***, a current moving upriver it is called the ***flood***, and if there is no current it is ***still***. Toss a stick as far as you can out into the river and watch to see which way it moves. Is it Ebb, or Flow? .

   Time: _____ Current: ebb flood still (circle one)

   Is there anything about the river or the shoreline that may cause the current near shore to flow in a different direction than the current out in the middle of the Hudson?

4. **Weather Conditions**:

   Time 1:_____ Air temperature: _____°F _____°C

   Time 1:_____ Air temperature: _____°F _____°C

   Wind speed: Beaufort chart: _____ Wind meter: _____

   Wind direction (where it's coming from) _____

   Cloud cover: (clear, partly cloudy, mostly cloudy, overcast) _____

   Any precipitation (rain)? _____ If so, how much? _____

   Briefly describe the weather for the last 3 days: Any rain, wind or unusual temperatures?