**Processes that Change Salinity**

Prior knowledge questions:

1. Salinity is a measurement of which property of seawater?
   1. Temperature b. Density c. Dissolved elements (solutes)

d. Oxygen concentration

1. Do you think the surface salinity of the ocean varies throughout the year (Winter-Spring-Summer-Fall)?

YES or NO

1. The variation in saltiness throughout the ocean is very small.
   1. True b. False

1. Which ocean is the saltiest?
   1. Atlantic b. Pacific c. Arctic d. Indian
2. What causes sea water to become LESS salty?
   1. Melting sea ice b. River inflow c. rain d. All the above
3. Changes in ocean salinity patterns may indicate changes in:
   1. Ocean circulation b. Earth’s water cycle c. Climate d. All the above
4. Where on Earth does ocean salinity tend to be the highest?
5. At desert latitudes (30o N &S) b. Near the equator (0o)

c. Near the poles d. Near any river mouths.

1. Increasing air temperatures will cause a(n)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of surface

salinities.

* 1. Increasing b. Decreasing c. Unknown

1. Increase sea surface temperatures will cause a(n)\_\_\_\_\_\_\_\_\_\_\_\_\_ of surface temperatures.
   1. Increasing b. Decreasing c. Unknown

1. High rates of rainfall will cause a(n)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of surface salinities
   1. Increasing b. Decreasing c. Unknown