Our Dying Engine: Hydrosphere and Cryosphere



https://www.youtube.com/watch?v=b4QjyrGkaUg

1. The scientists in the video are studying the Greenland Glacier and its melting. What exactly is a glacier?

2. Glaciers tend to melt during the summer months and refreeze or collect snow and ice during winter months. In a stable climate these amounts are about the same.a) We see a lot of melt water flowing down the moulin (hole in the glacier), where is that melt water going?

b) What are the potential consequences if glaciers like the one in Greenland continue to melt faster than they collect snow and ice?

3. Pack-ice is similar to glaciers but with an important difference, pack-ice floats on the surface of oceans. How are the consequences of pack-ice melting different from the consequences of glacial ice melting?

- 4. Heat is distributed all around the planet through ocean currents that act like thermal conveyor belts.
 - a) What is the name for this system of heat circulation?
 - b) What are the two properties of ocean water that determine its density and keep the ocean conveyor system going?

c)	How do these two properties affect the density of ocean water?	