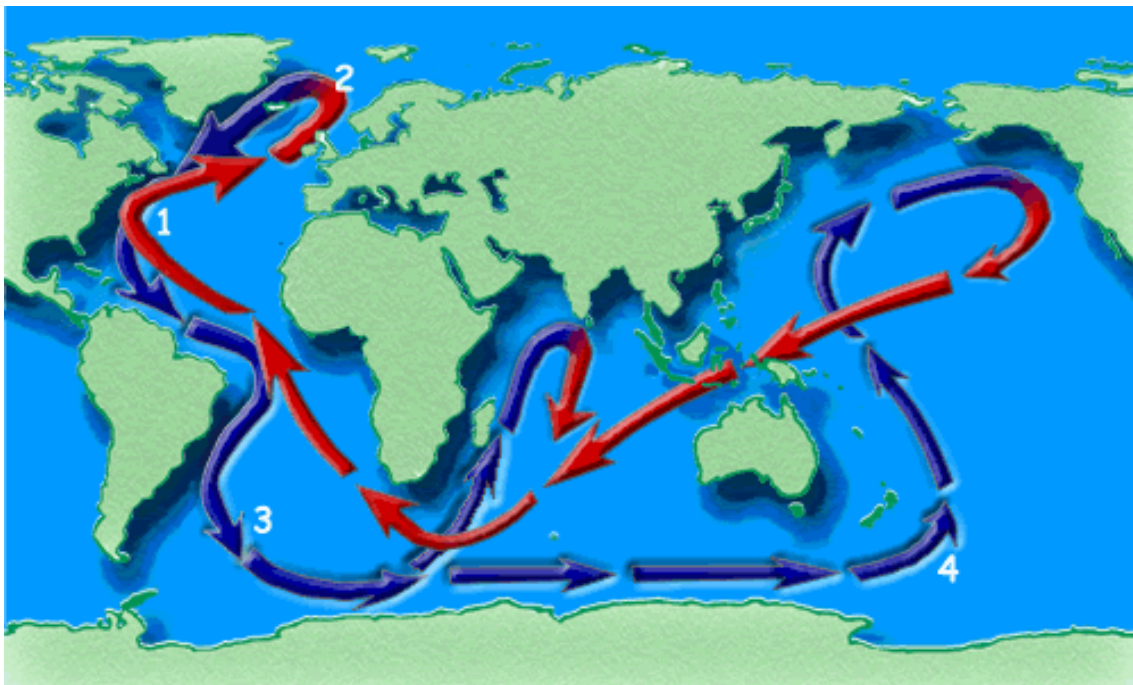


ASSESSMENT

Oceanographers talk about the deep and mysterious waters flowing in the ocean. In the reading, you learned about Count Rumford's theory that there is a system of currents running through the oceans of the world. Count Rumford was right. We now call that system of ocean currents the ocean conveyor belt. Look carefully at the image of the ocean conveyor belt below.

Like all images, this image is limited in the information it can depict. It does not tell us anything about salinity or specific heat, for example (at least, not directly), but it does depict three characteristics of the ocean conveyor belt very well: the temperature, depth of the current, and direction of flow. Answer the following two questions, referring specifically to these three characteristics.



1. Explain what happens to the water as it moves between points 1 and 2 on the map.

2. *Explain what happens to the water as it moves between points 3 and 4 on the map.*