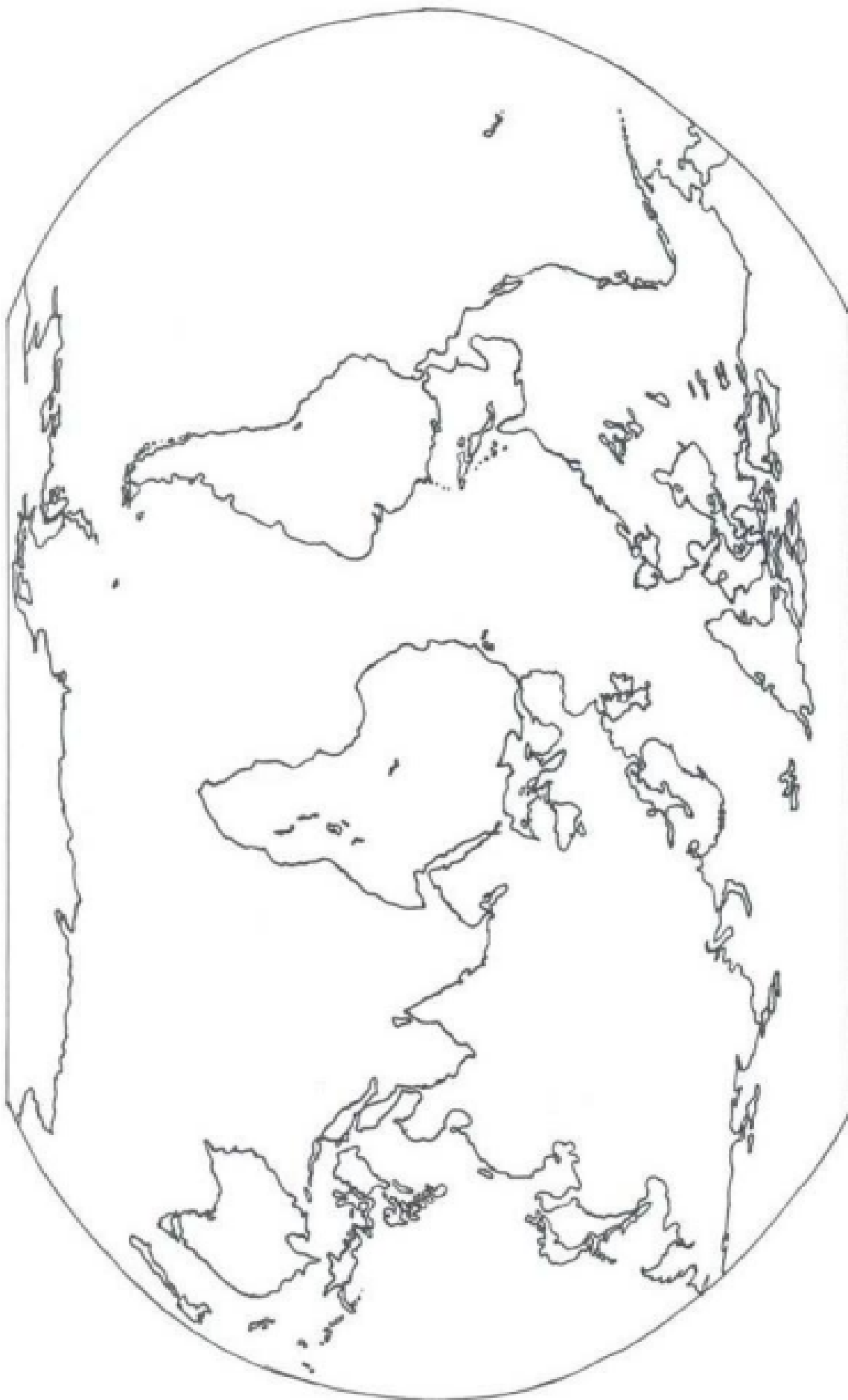


OCEANOGRAPHY, CURRENTS & GYRES



OCEANOGRAPHY, CURRENTS & GYRES

Part I:

- ~~Color all water LIGHT BLUE. Color all land LIGHT GREEN.~~
- Label the 5 Oceans: Pacific, Atlantic, Indian, Arctic, Southern.
- Label the 7 Continents: N. America, S. America, Europe, Asia, Africa, Australia, Antarctica.
- Label the directions: North, South, East, and West.
- Draw & Label the Equator (0° latitude), Prime Meridian (0° longitude), and the International Date Line (180° longitude).
- Draw & Label the Mid-Atlantic Ocean Ridge and the Mariana Trench.
- Label the Bering Strait, Red Sea, Baltic Sea, North Sea, Gulf of Mexico, and Mediterranean Sea.

Part II:

- Label the following **15 currents** in color based on temperature (**red** = warm current, **blue** = cold current):
Gulf Stream, North Atlantic Current, Canary Current, North Equatorial Current, South Equatorial Current, Brazil Current, Benguela Current, California Current, North Pacific Current, Kuroshio Current, East Australian Current, Peru Current, West Wind Drift, W. Australian Current, Agulhas Current
- Draw and Label the 5 Major Gyres.

Analysis Questions:

1. What trends do you notice about the side of the continent (east or west) and the temperature of the current?
2. Which two currents work together to bring a warmer than expected climate to Great Britain?
3. Which currents do you expect to be most affected by melting glacial ice?
4. The currents you've drawn are described by water temperature (warm or cold). Ocean currents can also be described by their salinity levels. DESCRIBE the effect would melting glacial ice have on the salinity of adjacent currents.
5. What could be the global consequences of this?

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