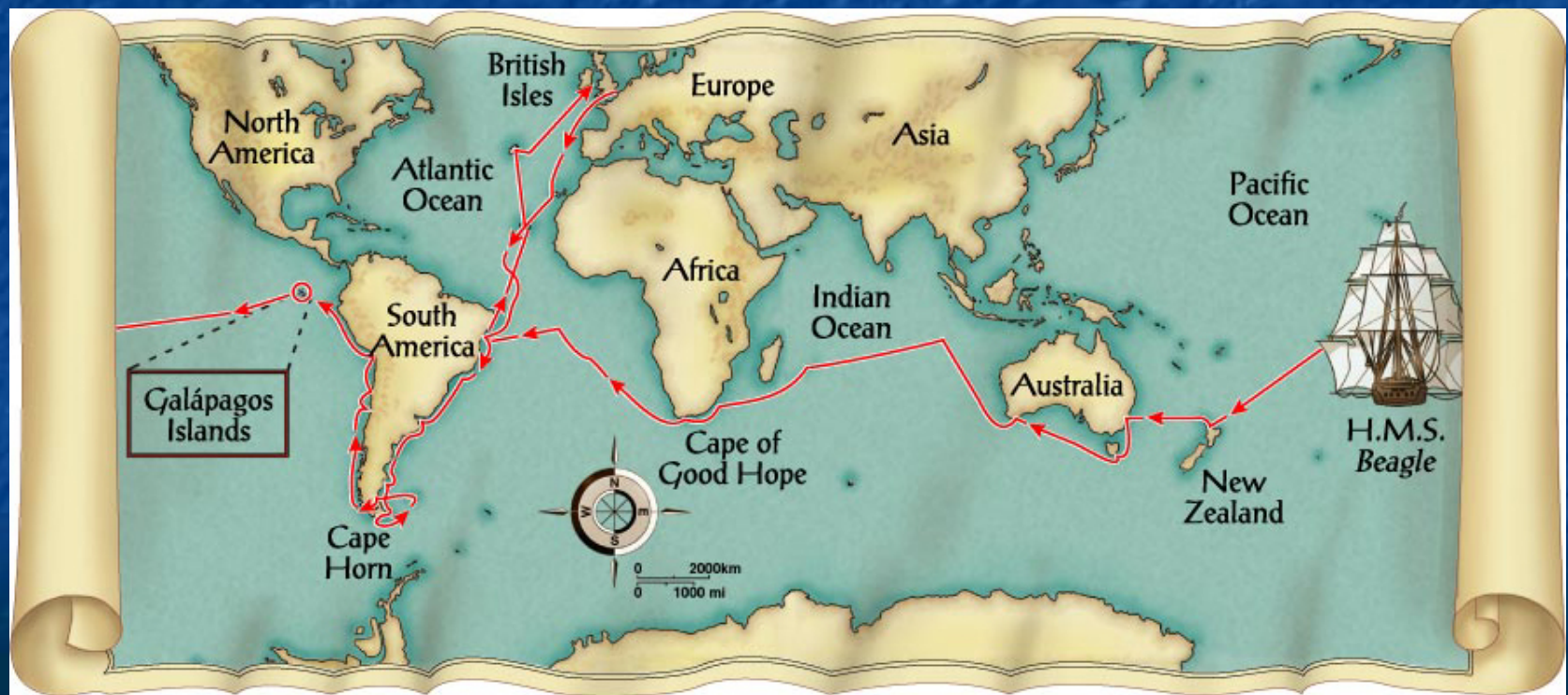


Chapter 15-1: The Puzzle of Life's Diversity

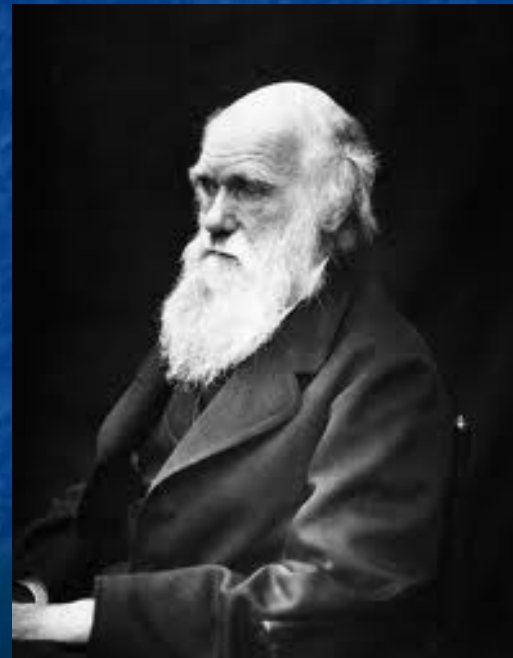
Essential Questions:

- What was Charles Darwin's contribution to science?
- What patterns did Darwin observe in the Galapagos Islands?
- What contemporary ideas shaped Darwin's thinking?

■ Voyage of the *HMS Beagle* – 1831 - 1836



- Darwin's observations
 - Patterns of diversity
 - Plants/animals well-suited to environment
 - Similar environments on different continents



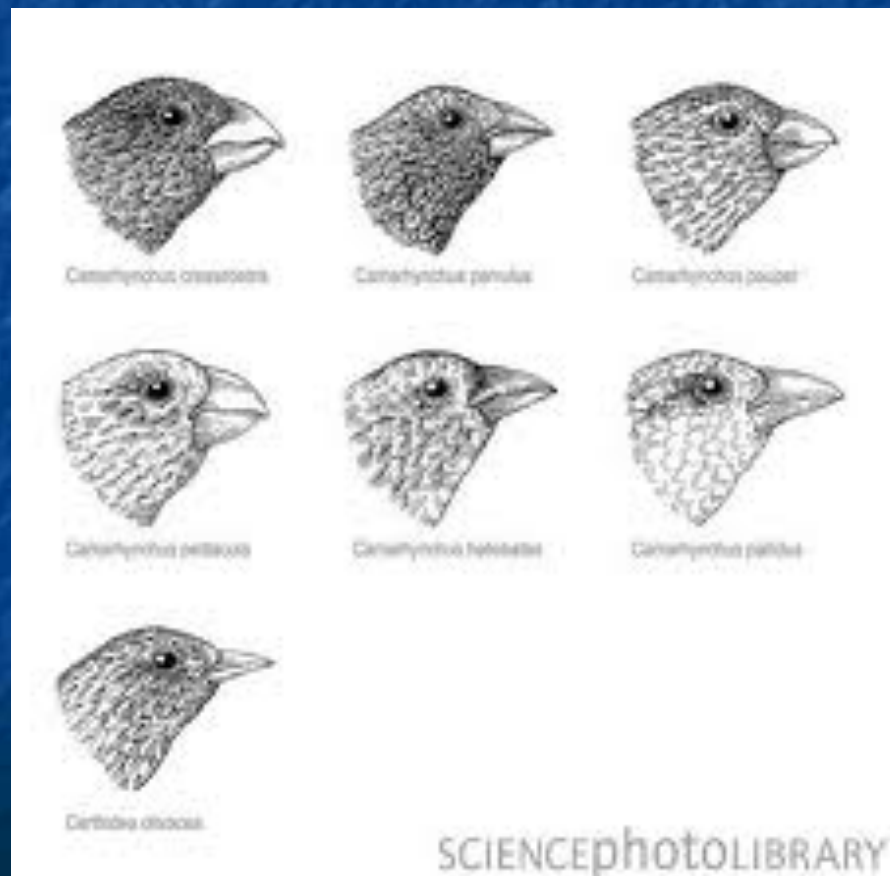
- Living organisms & fossils



- The Galapagos Islands
 - Tortoises
 - Low islands/ long necks
 - High islands/short necks

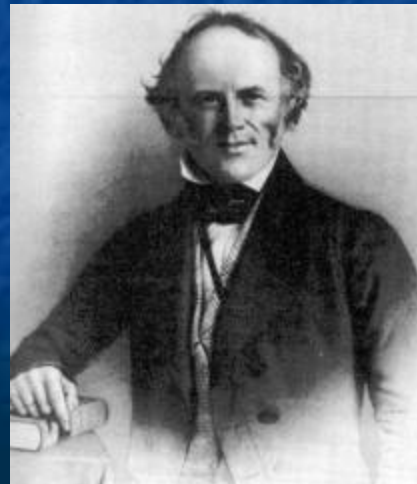
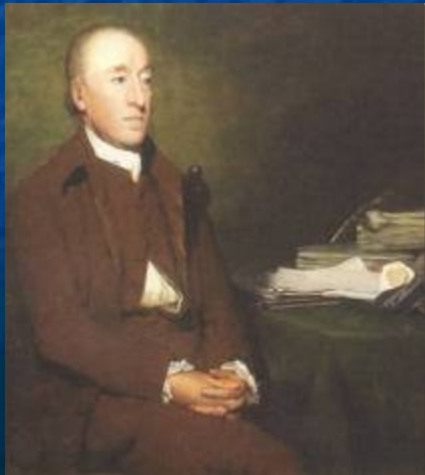


- Finches
 - Beak shape
- The journey home



Chapter 15-2: Ideas that shaped Darwin's thinking

- An ancient, changing Earth
 - Hutton
 - Lyell



- Lamarck's Theory of Evolution
 - Tendency toward perfection
 - Use and disuse
 - Inheritance of acquired traits
 - Evaluating Lamarck's theory



- Population growth
 - Thomas Malthus – 1798
 - Darwin:
 - *struggle for existence*

