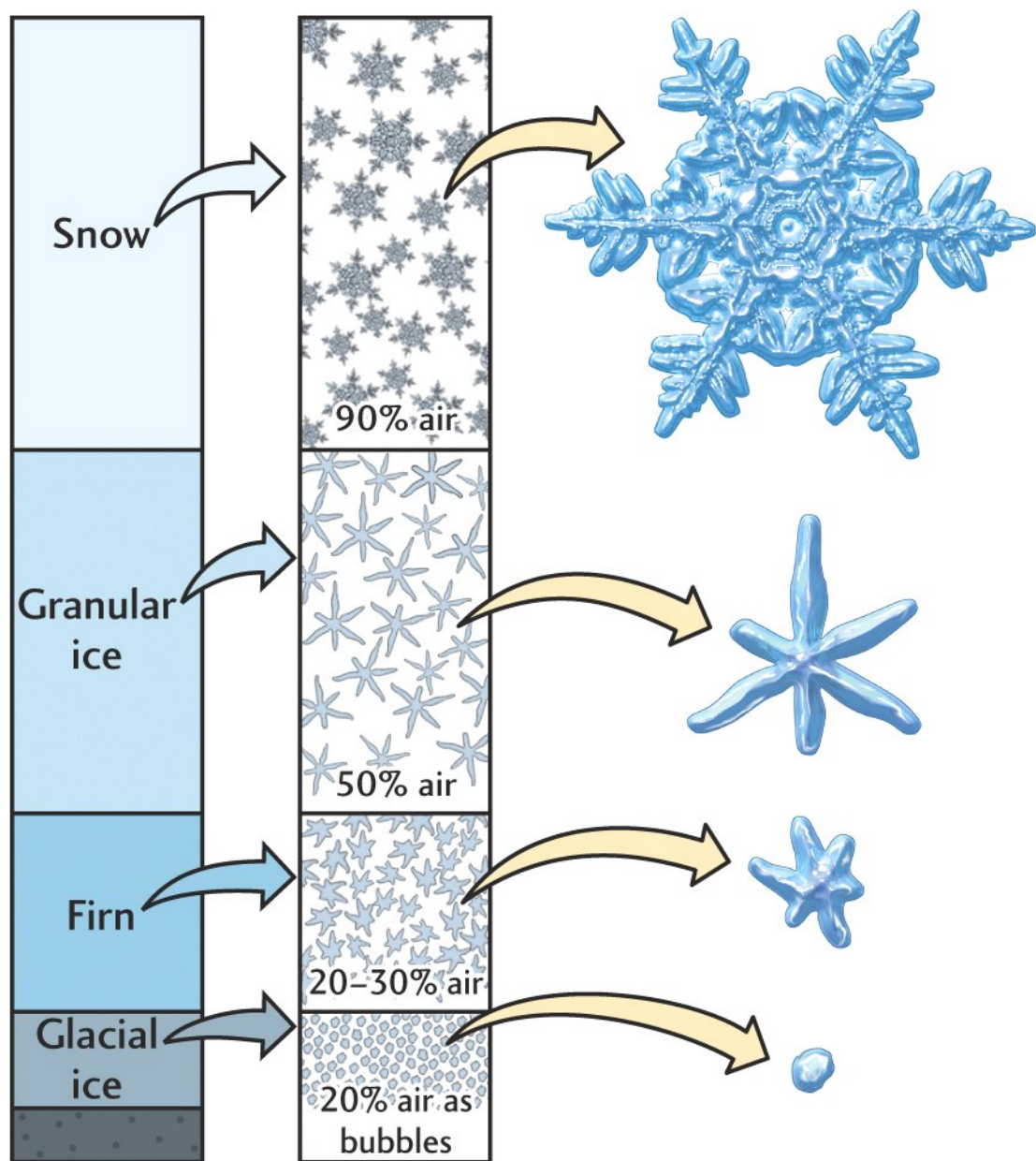


The Science of Ice: How ice sheets form and how scientists use ice to learn about past climate

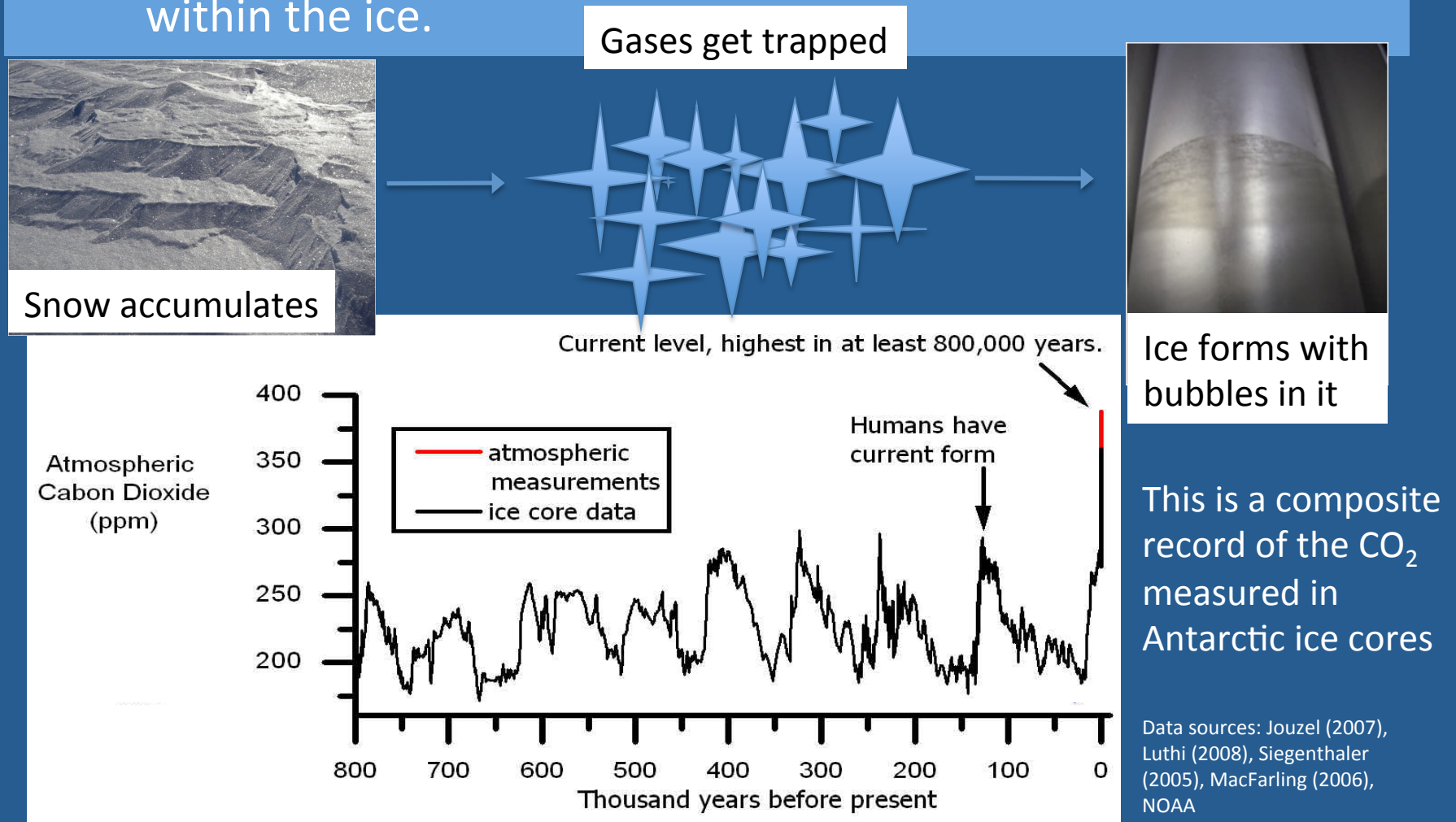




Glaciers and ice sheets form as snow accumulates. Over time, as snow accumulates, pressure increases, weighing down the underlying snow. This creates a layer of dense snow, called firn. Eventually the firn gets so compacted it turns into solid ice. Scientist study this ice to learn about past climate changes.

Ice Cores and Climate Change: Greenhouse gas concentration fluctuations

- **Ice can preserve ancient atmospheres**
 - The concentrations of greenhouse gas like carbon dioxide and methane can be extracted from air bubbles trapped within the ice.



Ice Core Art Activity

- Can you draw snowflakes, firn and ice?
- What do you think each would look like?

