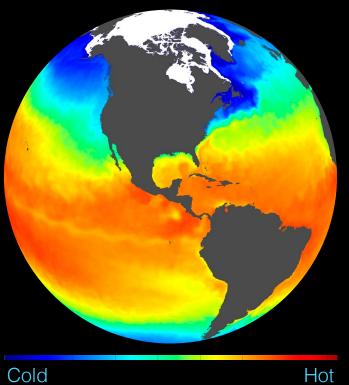
What are the different types of field maps?

- Field a region with a measurable quantity at every location
 - Example: ocean temperature

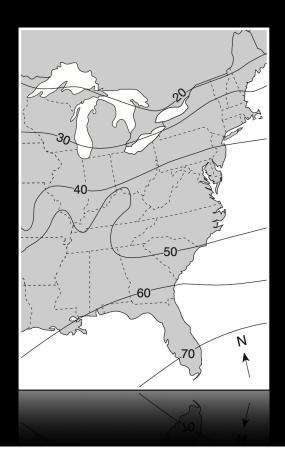


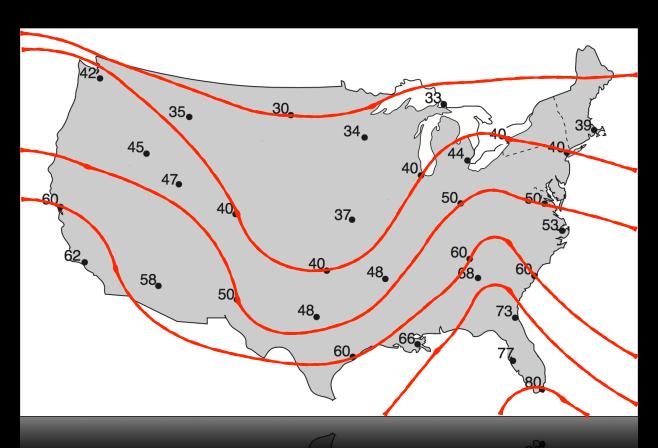
• Isolines - are lines that are drawn on a field map to connect all of the points on that map that have the same value

 Example: precipitation amounts in inches



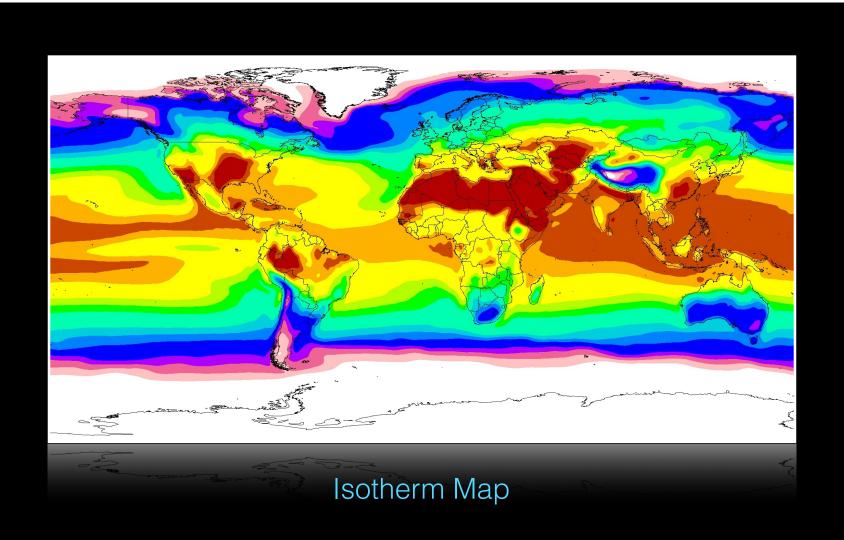
- Points represent values of data found at a specific location
- To construct a field map connect the points of equal data
 - Do not connect every value... just whole numbers
 - Isolines form complete circles or end at the edge of the map

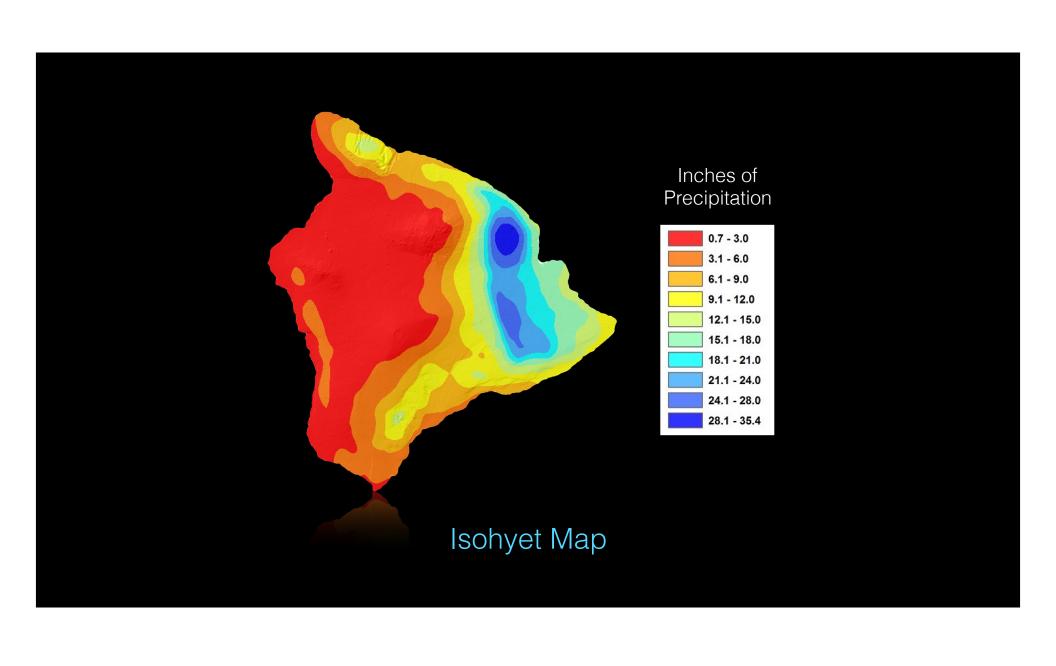


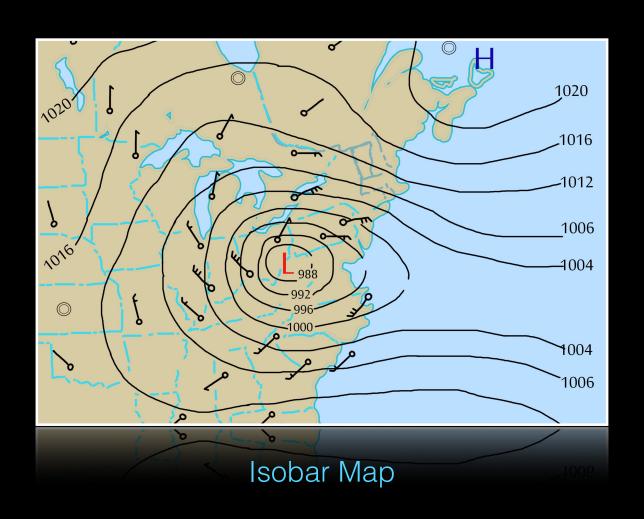


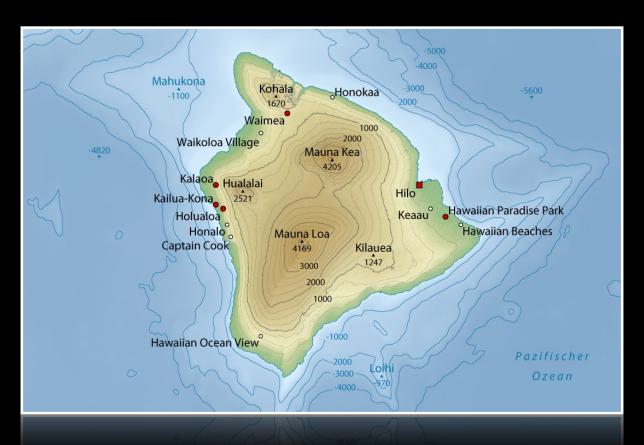
Temperature Values in the United States

- Different Types of Isolines:
 - Isotherm lines that connect equal points of temperature
 - Isohyet lines that connect equal points of rainfall
 - Isobar lines that connect equal points of air pressure
 - Contour Line lines that connect equal points of elevation









Contour Map

- Rules of Isolines:
 - Connect equal points of data
 - Close around hills and depressions or extend to the edge of the map border
 - Isolines never cross one another
 - Close together represent higher gradient
 - Far apart represent lesser gradients

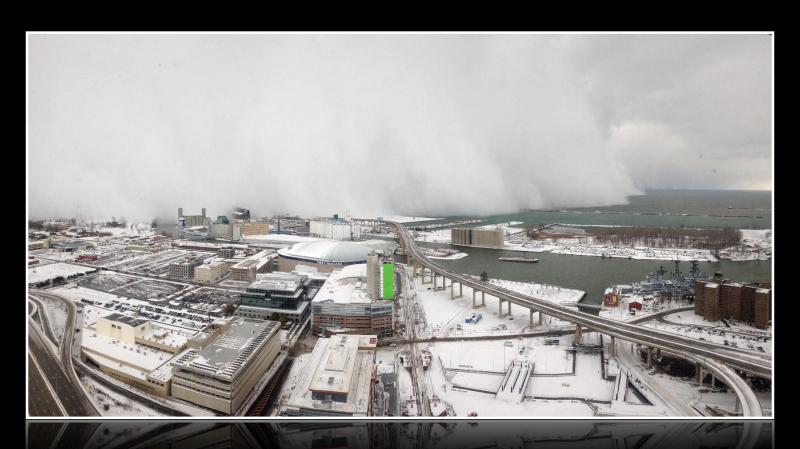


Stowe, VT

Gradient (slope) - rate of change from one place to another

Gradient = $\frac{\text{change in field value}}{\text{distance}}$

distaile



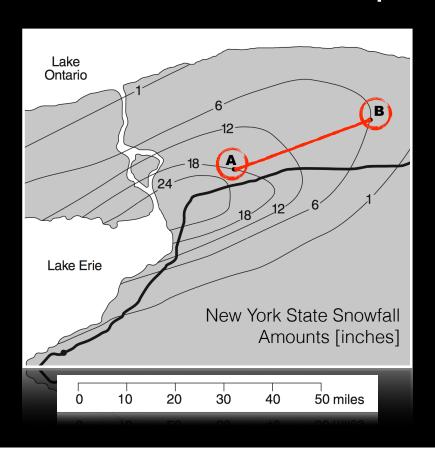
Snowfall in Buffalo





Snowfall in Buffalo





Gradient = change in field value change in distance

Gradient = 18 inches - 6 inches 30 miles

Gradient = 12 inches 30 miles

Gradient = 0.4 inches/mile