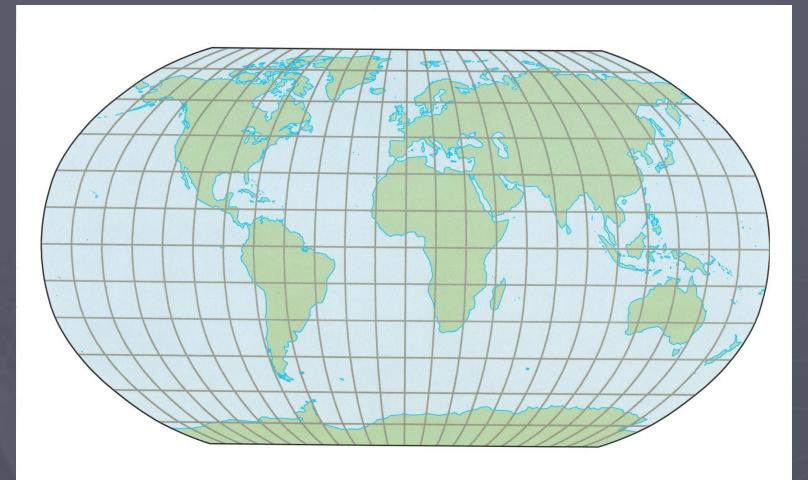
Map Projections and Types of Maps

Map Projections

- Cartographers have to deal with the problem of making maps of a spherical earth onto a flat surface
 - Leads to distortions
 - Shape can be distorted
 - Distance between two points can increase or decrease
 - Relative size may be altered, areas can appear much larger than they really are
 - Direction can be distorted

Robinson Projection



Robinson Projection

- More accurately shows the area near the poles
- Used to show proportions of land to water
- Distorts cardinal directions and distance

Mercator Projection

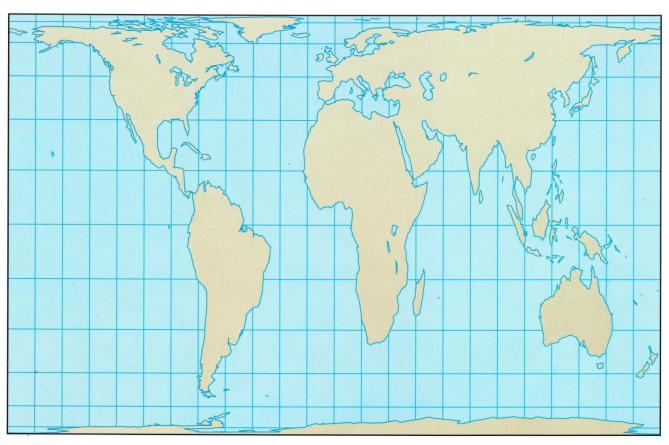
- Used primarily for navigation since it is easiest to plot direction
- Increased
 distortion the
 further away
 from the equator
- Makes the North look much larger



Gall-Peters Projection

T-24

1.3.9 The Peters projection



HUMAN GEOGRAPHY: PLACES AND REGIONS IN GLOBAL CONTEXT 2/e by Paul L. Knox and Sallie A. Marston

© 2001 by Prentice-Hall, Inc., Pearson Education Upper Saddle River, NJ 07458

Gall-Peters Projection

- Focuses more on land area accuracy
- Released in 1974, based off a 1800 design
- More accurately shows southern hemisphere as larger than Northern Hemisphere
- Areas near the poles are stretched horizontally

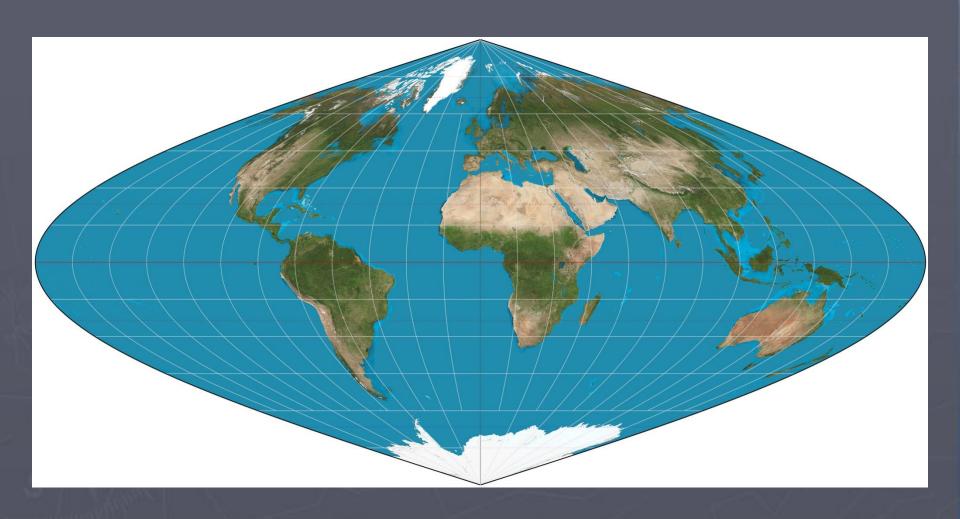
Fuller Projection

T-25

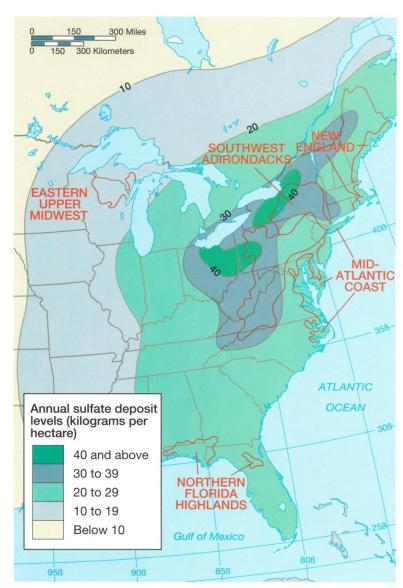
1.3.10 Fuller's Dymaxion projection



Sinusoidal projection



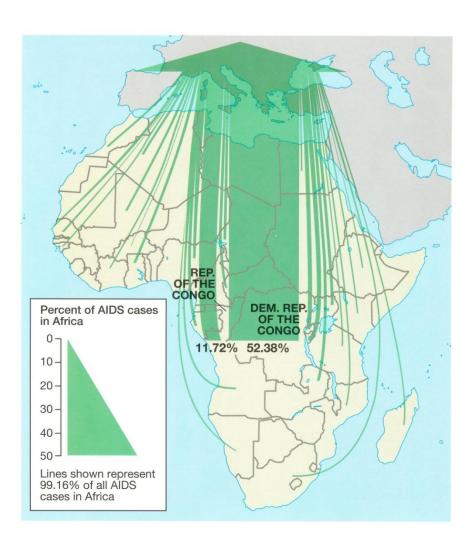
Types of Maps - Isoline



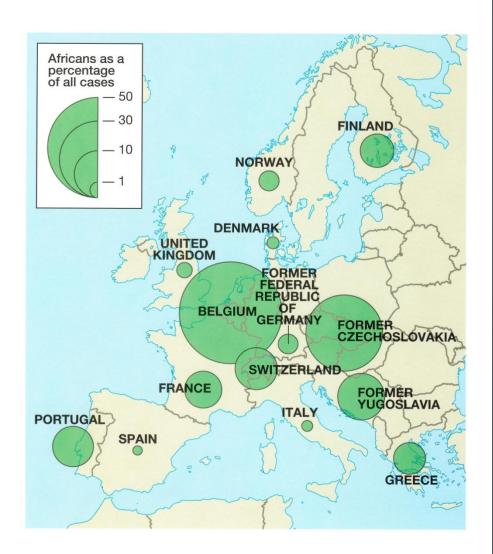
HUMAN GEOGRAPHY: PLACES AND REGIONS IN GLOBAL CONTEXT 2/e by Paul L. Knox and Sallie A. Marston

© 2001 by Prentice-Hall, Inc., Pearson Education Upper Saddle River, NJ 07458

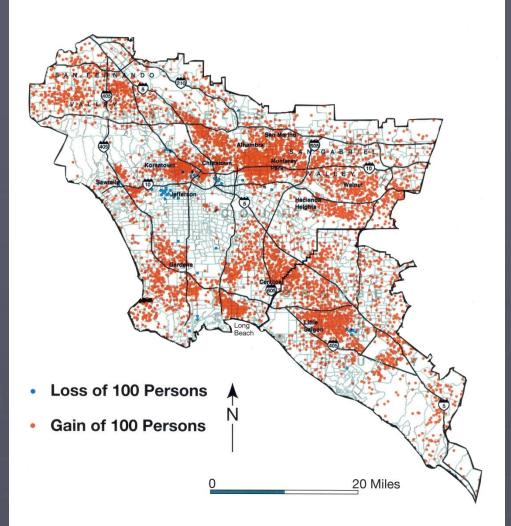
Types of Maps -Thematic



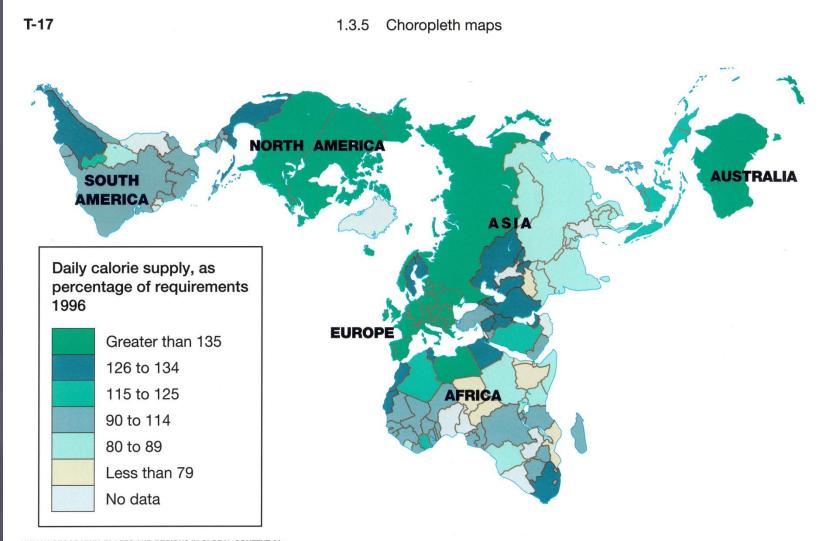
Types of Maps Thematic



Types of Maps - Dot



Types of Maps - Choropleth



HUMAN GEOGRAPHY: PLACES AND REGIONS IN GLOBAL CONTEXT 2/e by Paul L. Knox and Sallie A. Marston

© 2001 by Prentice-Hall, Inc., Pearson Education Upper Saddle River, NJ 07458

Types of Maps – Located Charts

T-18

1.3.6 Located charts

