

CGC1D1- MR. A. WITTMANN

TYPES OF MAPS

- There are many types of maps.
- We will learn about 3...
 1. General Purpose Map
 2. Thematic Map
 3. Topographic Map

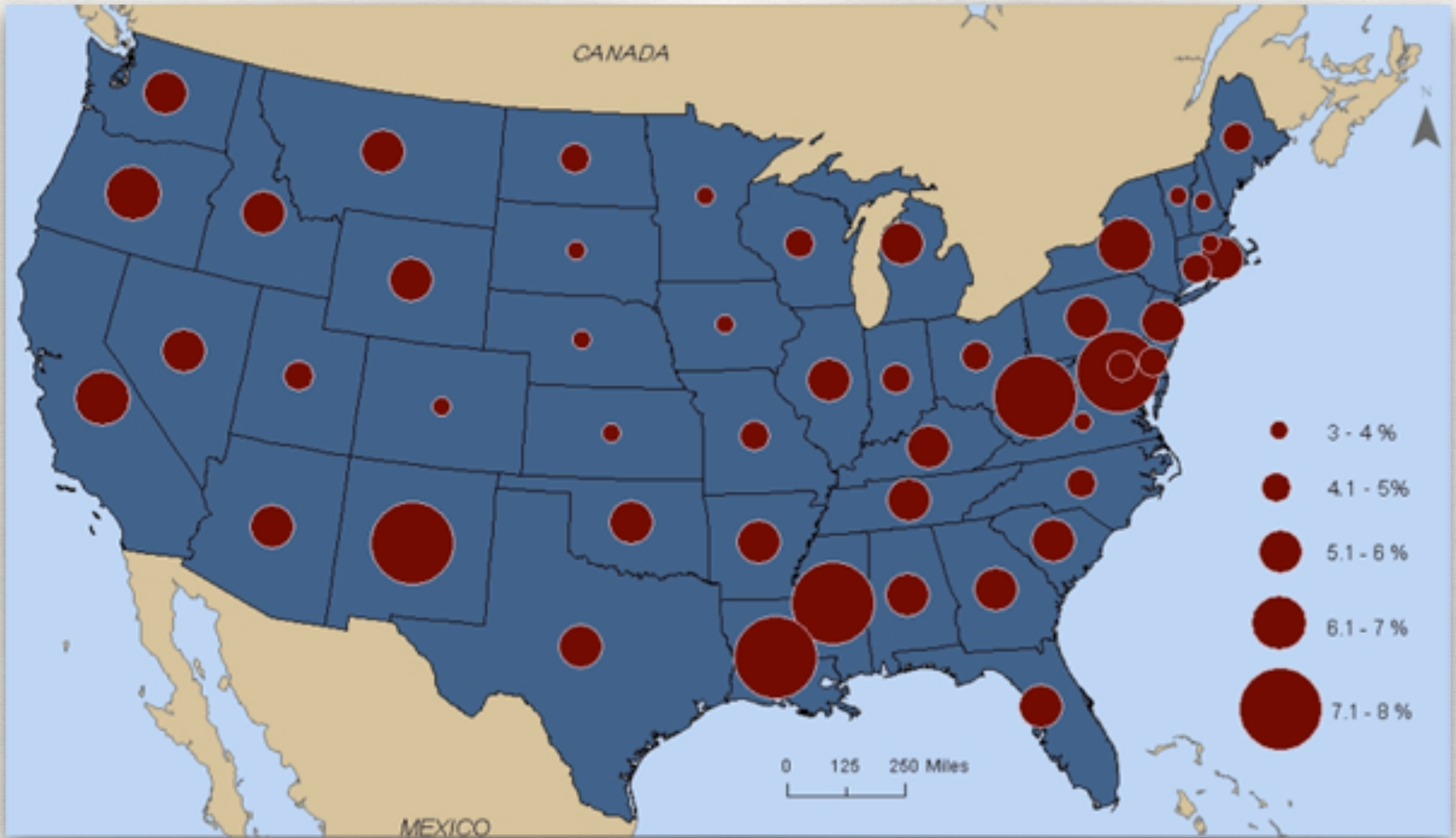
1. GENERAL-PURPOSE MAP

- Provides many types of information on one map.
- Most atlas maps, wall maps, and road maps fall into this category.
- Some features found on a general-purpose map are...
 - bodies of water, roads, railway lines, parks, elevations, towns and cities, etc.
- Give a broad understanding of the location and features of an area.

2. THEMATIC MAP

- Provides specific information about a place.
- Designed to show information on one topic.

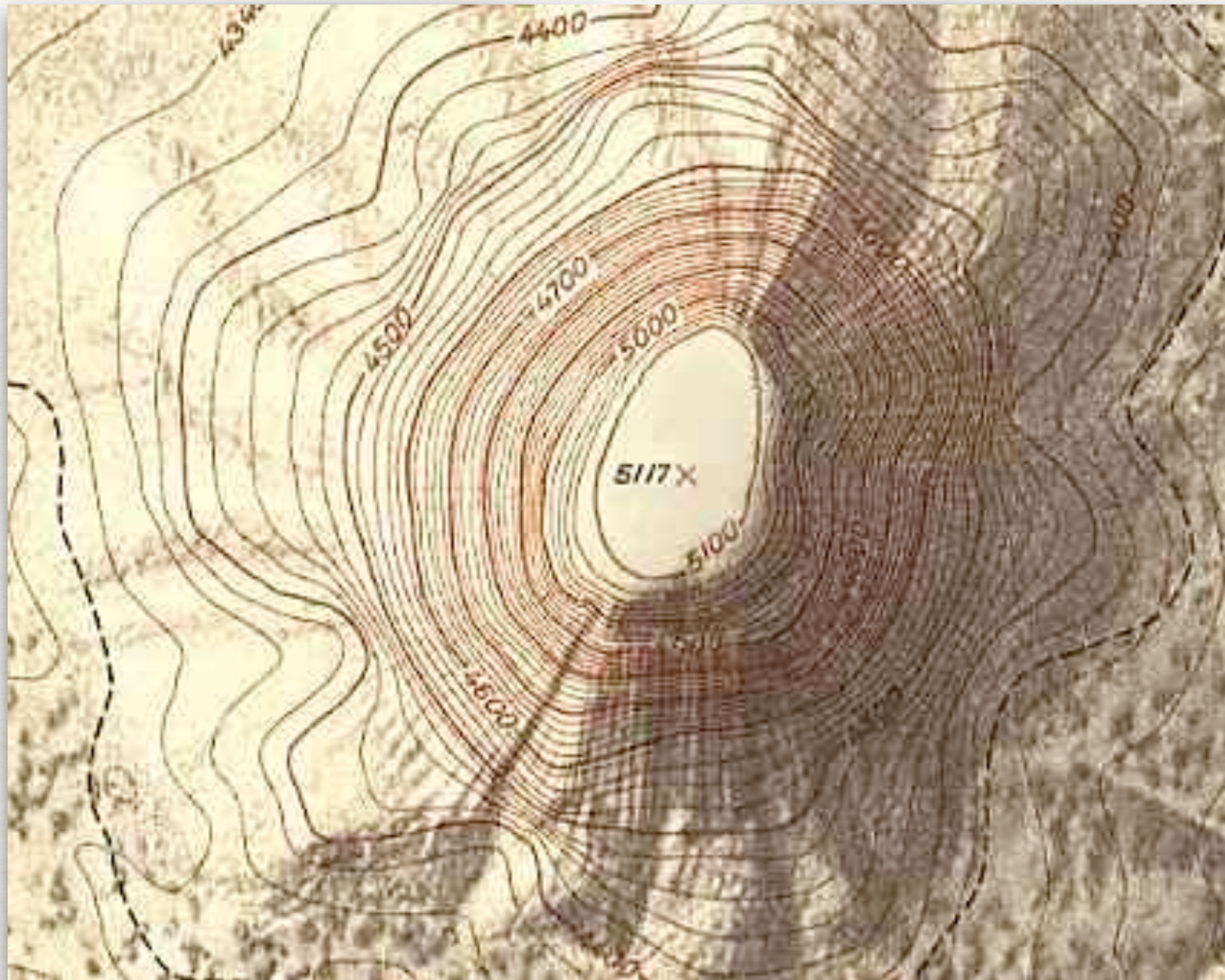
EXAMPLE OF A THEMATIC MAP



3. TOPOGRAPHIC MAP

- Uses symbols to show a variety of features.
- Shows the physical characteristics of a small area of the earth's surface in detail.

EXAMPLE OF TOPOGRAPHIC MAP



- Any of these types of maps could be...

1) **large scale**

- maps that show a large amount of detail, of a small area

or

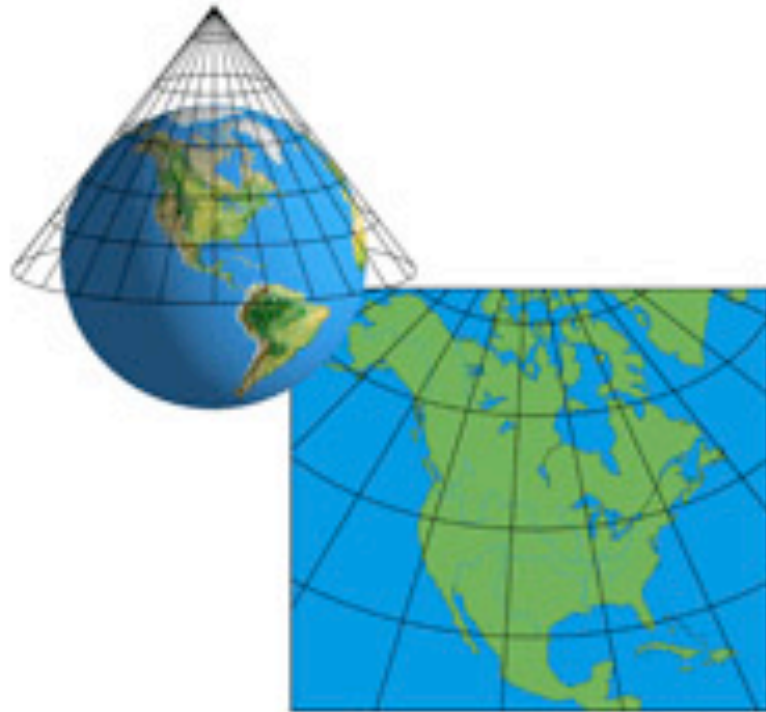
2) **small scale**

- maps that show small amount of detail, of a large area)

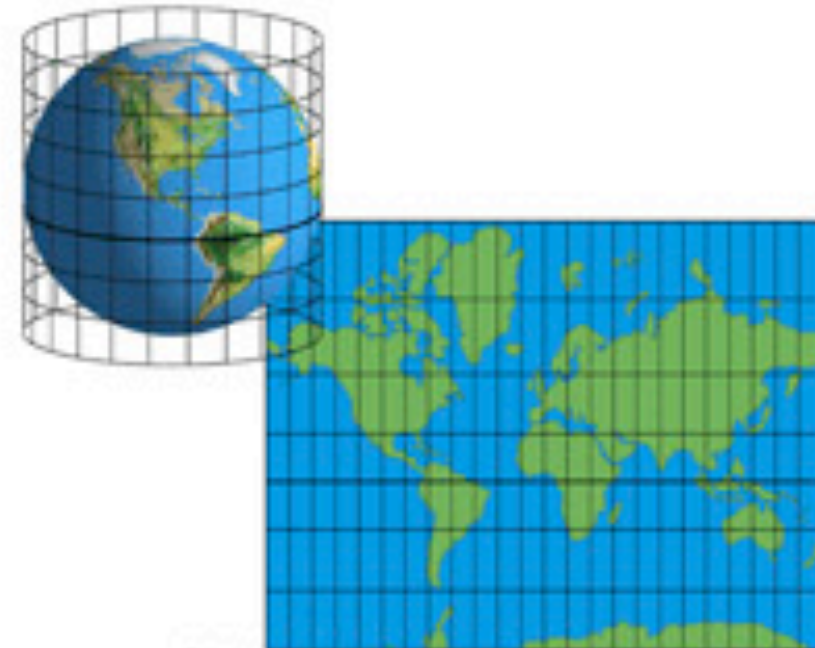
MAP PROJECTIONS

- The Earth is a sphere.
- A globe is the only accurate method to represent it.
- When a round globe is transferred to a flat map, a map projection is created.
- Projections cause distortion in shape, size, distance & direction.

EXAMPLES OF PROJECTIONS



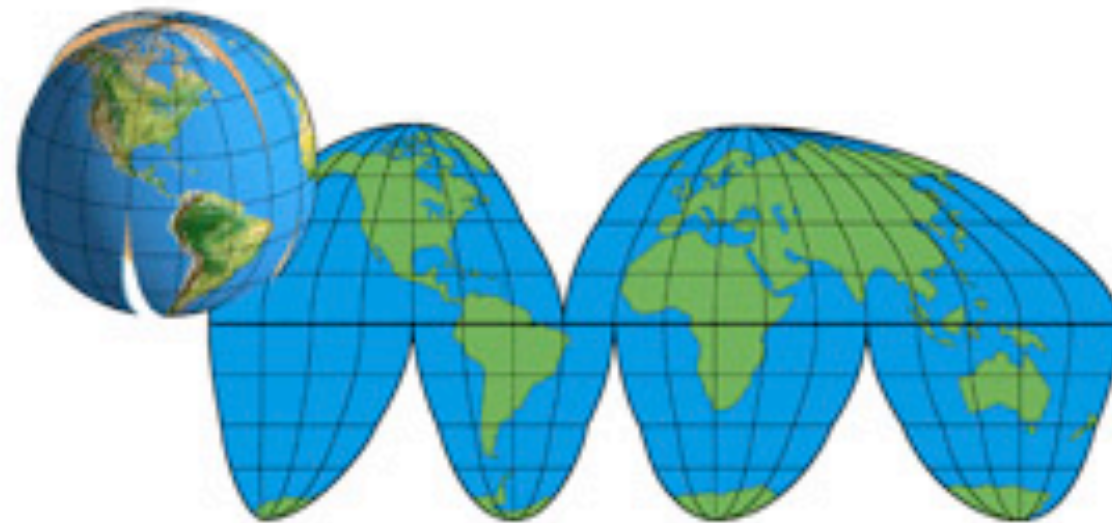
conic projection



cylindrical projection



plane projection



interrupted projection

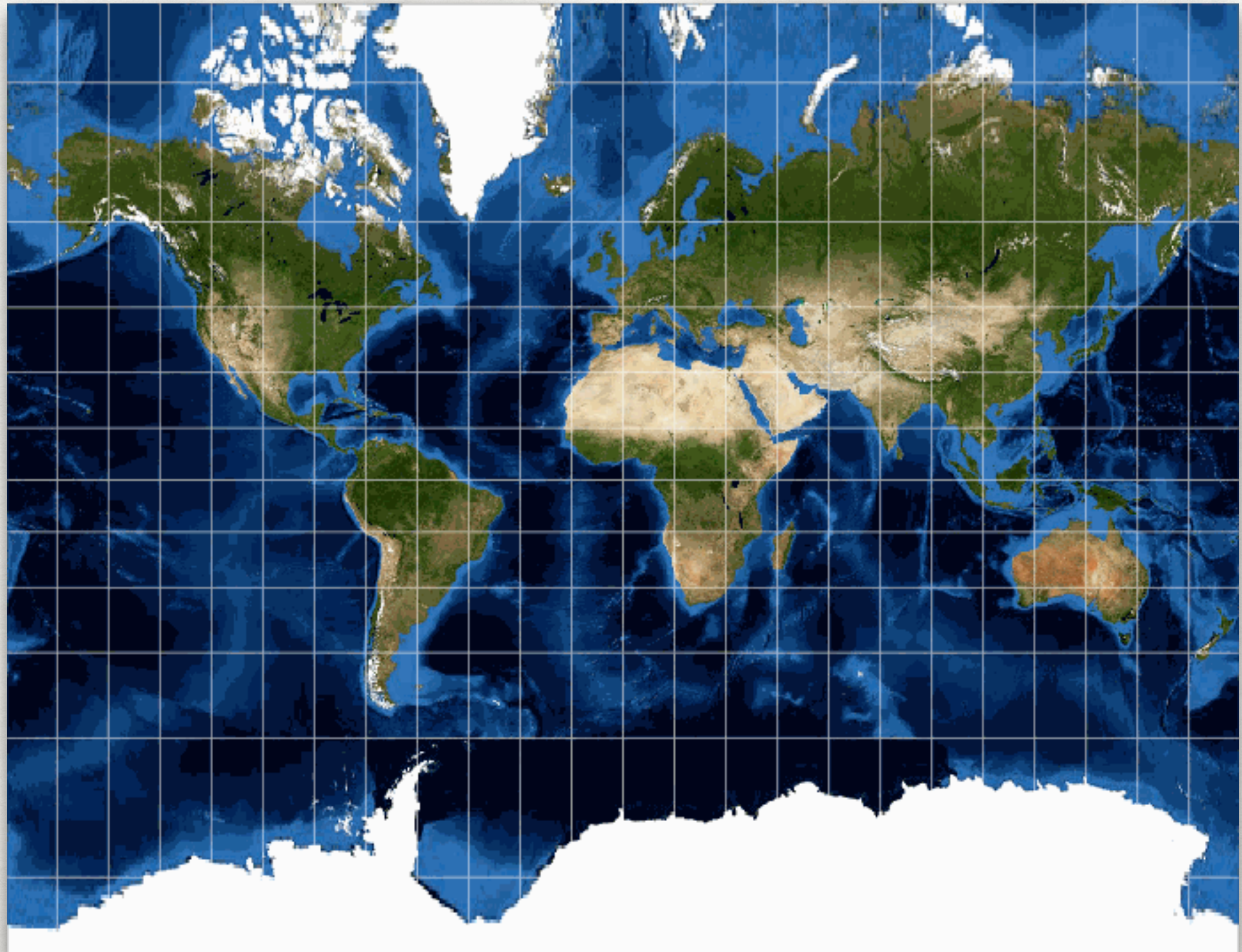
MAP PROJECTIONS

- There hundreds of projections
- Here are 3...
 1. Mercator Projection
 2. Equal-area Projection
 3. Winkel-Tripel Projection

1. MERCATOR PROJECTION

- Best for navigation
- True compass points
- Distorts size & shape of countries
- Countries along the equator appear smaller
- Countries at the poles appear larger

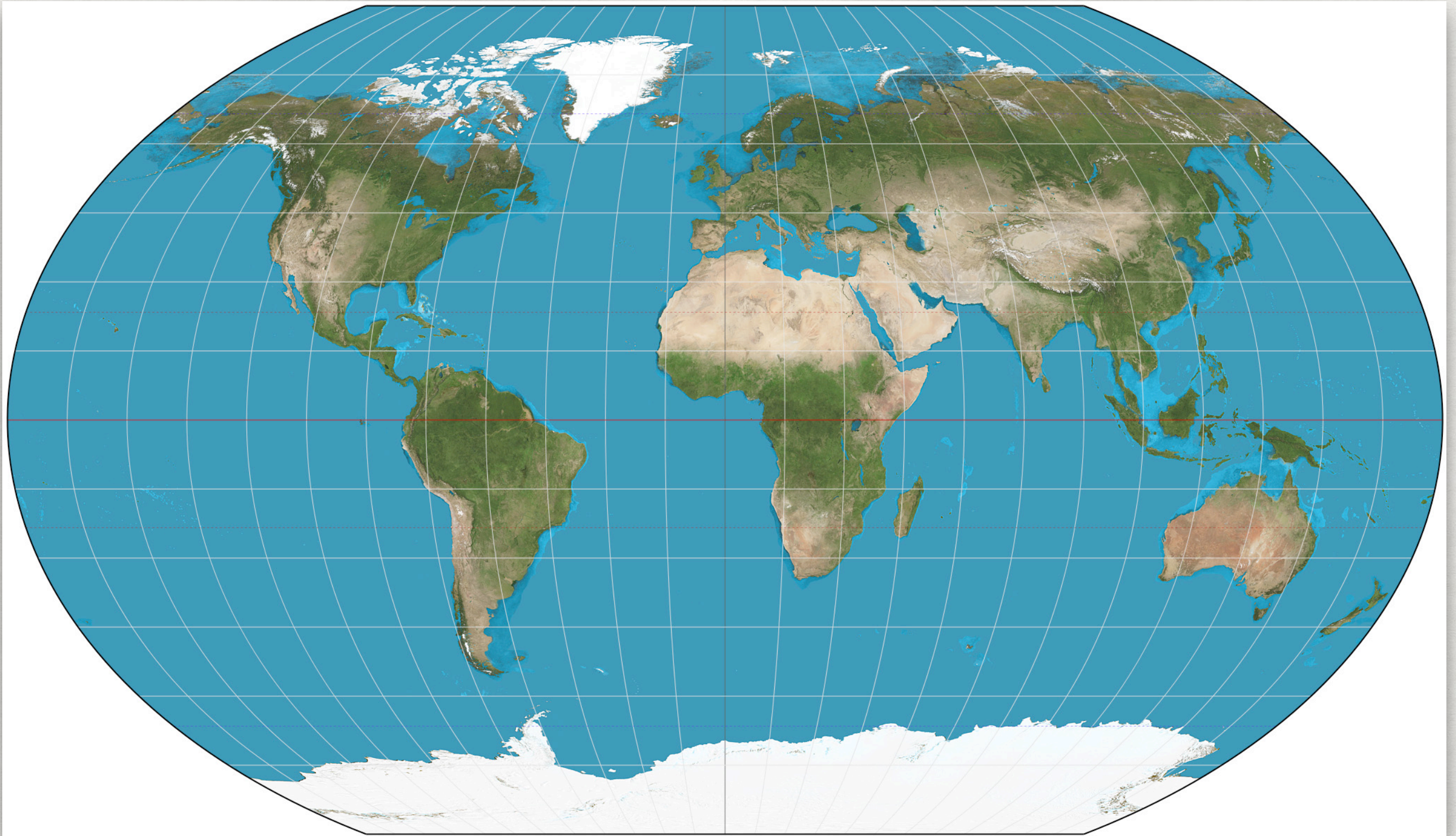
EXAMPLE OF MERCATOR PROJECTION



2. EQUAL-AREA PROJECTION

- More accurate proportions of size & shape of countries
- Bad for navigation

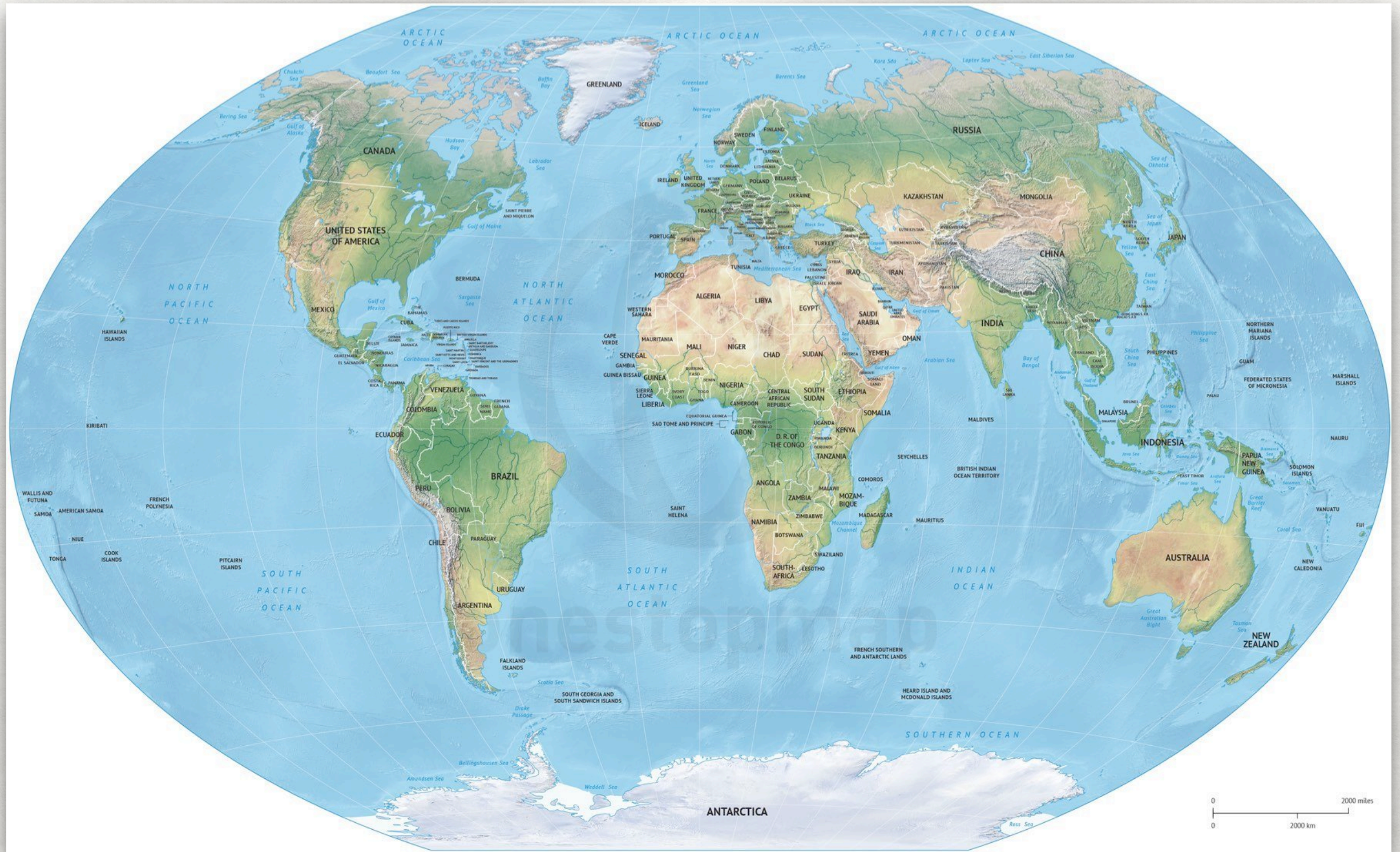
EXAMPLE OF EQUAL-AREA PROJECTION



3. WINKEL-TRIPLE PROJECTION

- Comprise of all distortions of many projections
- More realistic representation of the Earth

EXAMPLE OF WINKEL-TRIPEL PROJECTION





THE END