

Unit

1

Map Scale and Projections

All About Maps

The following information corresponds to Appendix A in your textbook and the online videos. Fill in the blanks to complete the definition or sentence, and answer any open-ended tasks completely. All of the following data in addition to your reading is important, not just the blanks you fill in.

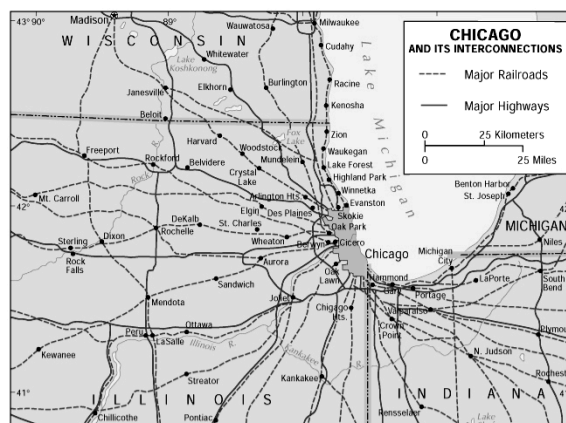
Map Essential and Scale

- What are the three fundamental properties of all maps:

Use this acronym as a base to analyze any map:

(in the video, not in the textbook)

T - _____
 O - _____
 D - _____
 A - _____
 L - _____
 S - _____
 I - _____
 G - _____

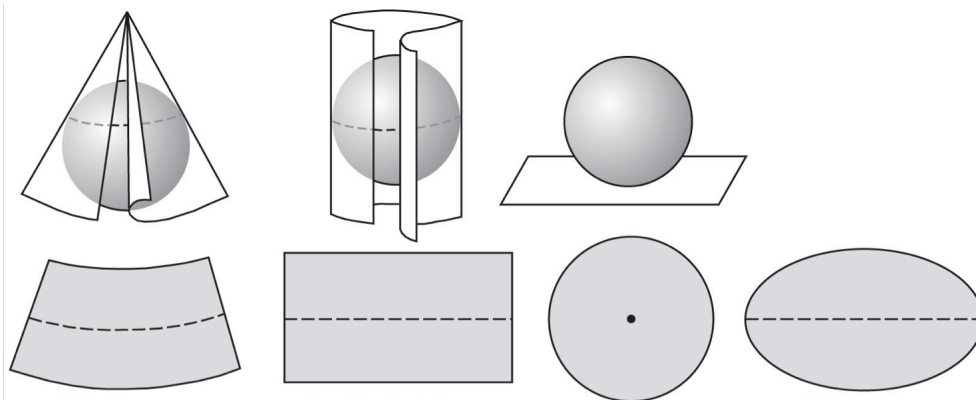


*not all elements of TODALSIG are represented in the map

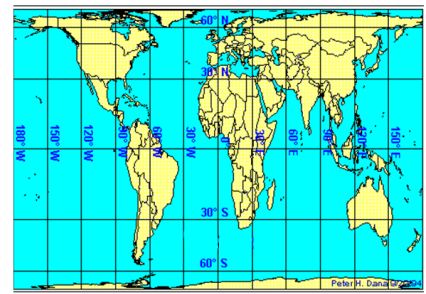
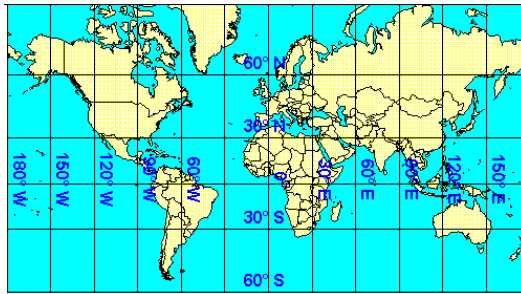
- Why is the use of an acronym like TODALSIG beneficial to your understanding of maps?
- _____ – has TWO meanings: 1) the _____ extent of something (most common vernacularly); OR 2) reveals how much of the real world has been _____ to fit on the page or screen on which it appears (shown as a fraction, bar graph, or verbal statement).
 - _____ scale = large detail, smaller area; _____ scale = small detail, larger area
- * Truth is scale-dependent; phenomena you study at one scale (e.g. local) may well be influenced by developments at *other* scales (e.g. regional, national, or global)

Map Projections

- Identify the following classes of map projections:

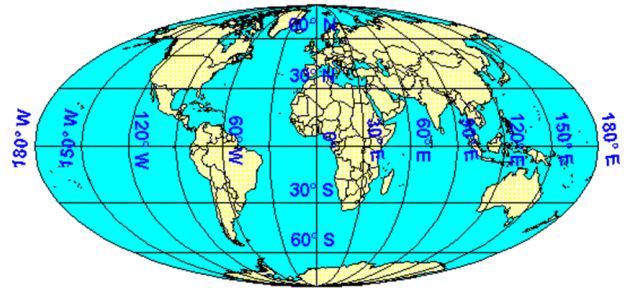
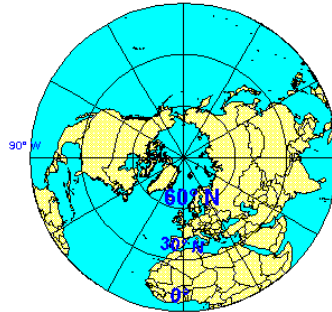


- _____ **projections** - designed for maximum accuracy based on the shape preservation of the polygons (e.g., the lines of latitude and longitude).
- Identify the following map projections:

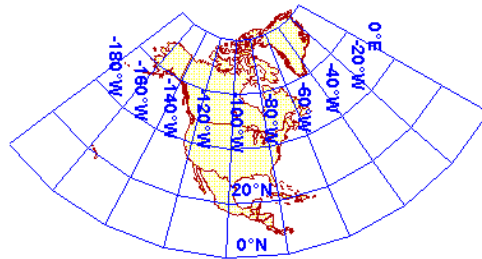


* Briefly discuss ONE advantage and ONE disadvantage for using this type of projection:

- _____ - _____ **projections** - designed to preserve the size and shape of landmasses.
- Identify the following map projections:



_____ - _____ **projections (continued)**



* Briefly discuss ONE advantage and ONE disadvantage for using this type of projection:

- Identify the following **hybrid** map projections:

