

Geographer's Tools

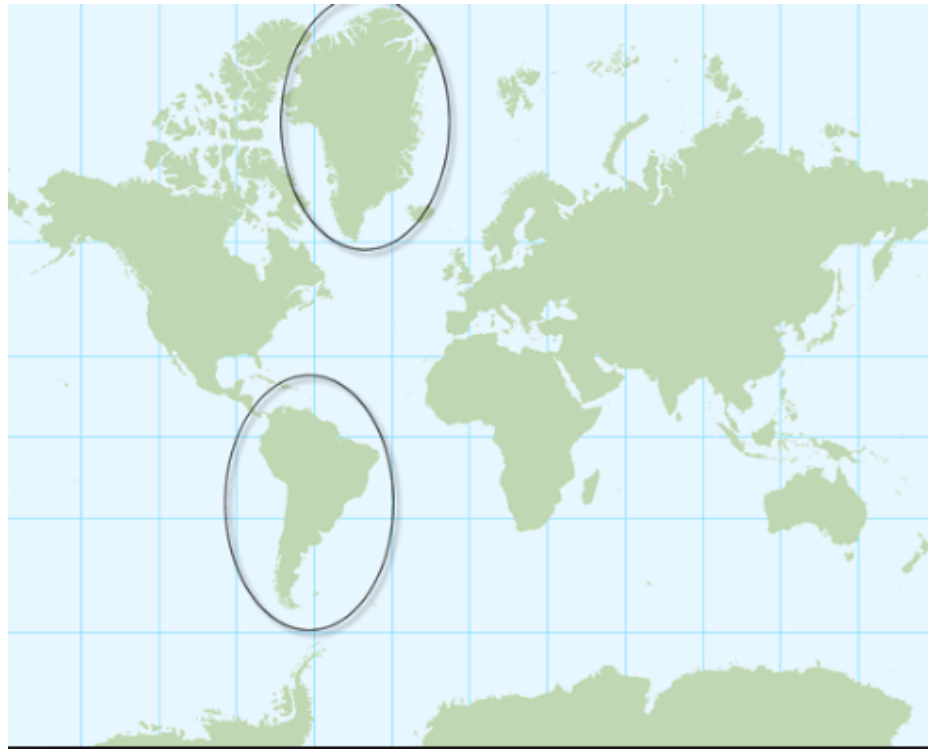
Globes

- Accurate shape of the Earth
- Shows distances correctly
- Not portable and does not show much detail.



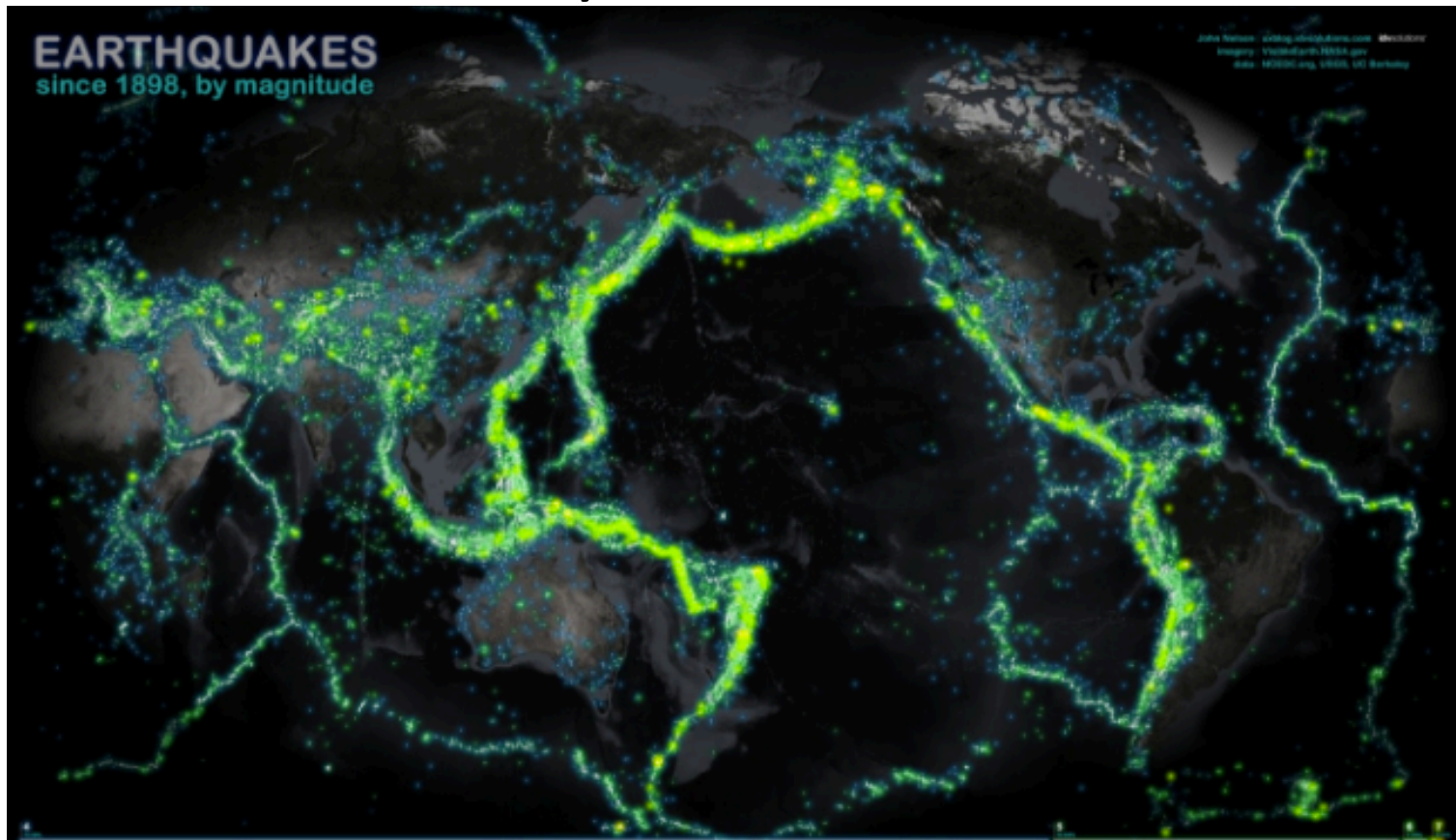
Distortion

- Maps represent a round earth on a flat surface. The physical reality is incorrect. The map might represent the shapes or distances incorrectly.



Maps

- Show small details about our Earth
- Portable, and easy to use



Most photographed places in the world



Source: CIA Factbook
Simran Khosla/GlobalPost



WHERE THE BRIBES ARE

Penalties in U.S. Government FCPA Cases Since 1977

www.jamesmintz.com

SECTORS

- All Sectors
\$4.56 billion
- Energy
\$2.05 billion
- Manufacturing
\$205.80 million
- Defense & Arms
\$999.20 million
- Consulting, Mktg.
\$395.75 million
- Health & Pharma
\$54.12 million
- Telecomms.
\$278.74 million
- Agriculture
\$50.80 million
- Infrastructure
\$264.94 million

ABOUT



Updated as of Oct. 31, 2012.
Information Sources: DOJ, SEC, FCPA.
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A THRILLSEEKERS GUIDE TO SIX FLAGS FIESTA TEXAS!



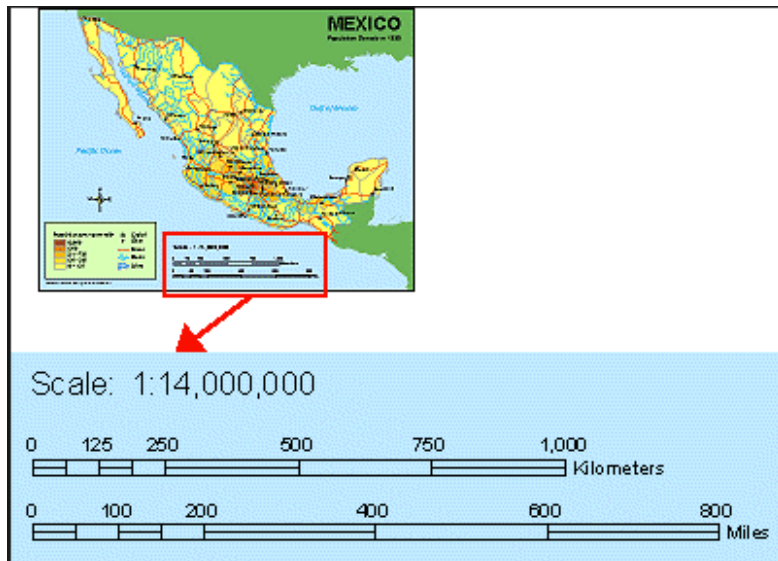
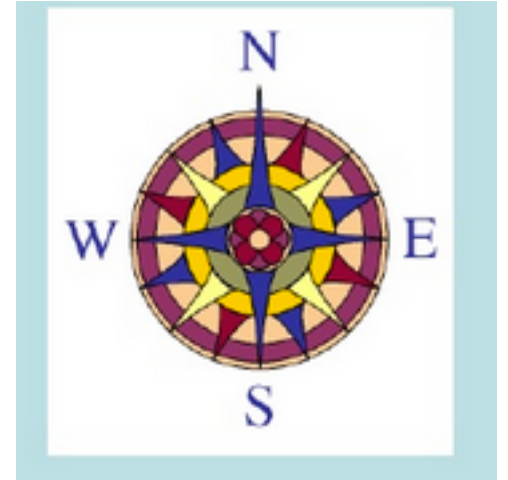
Six Flags[®]
Fiesta Texas[™]
A TIME WARNER ENTERTAINMENT COMPANY

MAP LEGEND

- | | | | |
|---------------------------|--------------------|---|---------------------------------|
| Health Services/First Aid | Lockers | Restrooms/Water Fountains/Public Telephones | Stroller and Wheelchair Rentals |
| ATM | Hospitality Center | Guest Relations | Season Pass Redemption Center |
| | | Mother's House | |

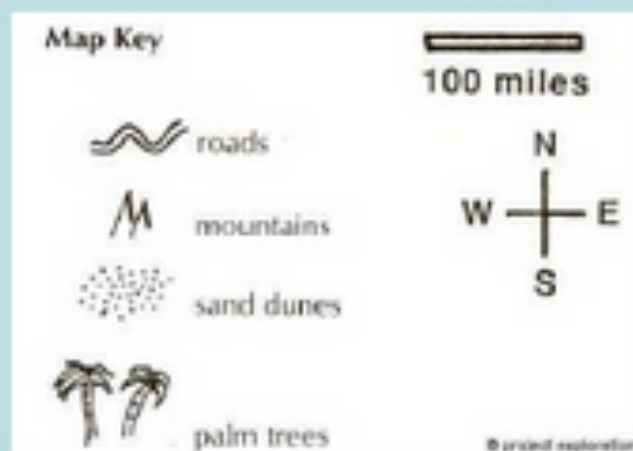
Parts of a Map

- Title
- Compass Rose
- Key (legend)
- Scale

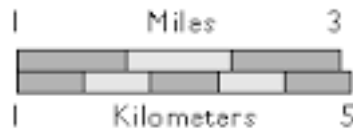


Map Key or Legend

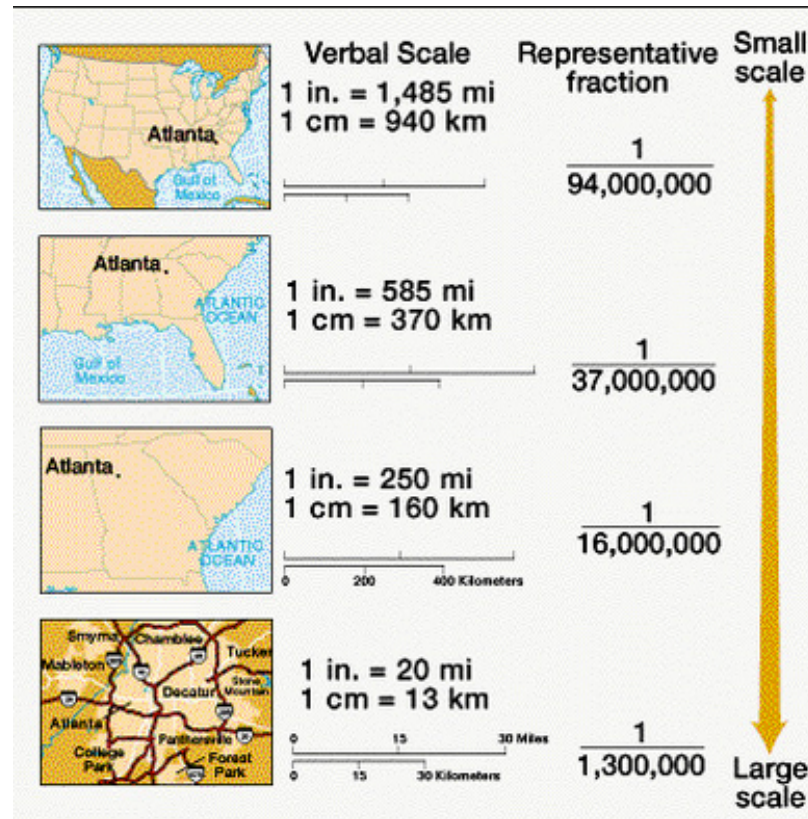
- The objects on a map are represented using **symbols**. A symbol is a picture on the map that represents something in the real world. Maps use a **key**, or **legend** to explain the meaning of each of the symbols used in the map. These keys usually show a small picture of each of the symbols used on the map, along with a written description of the meaning of each of these symbols.



Scale



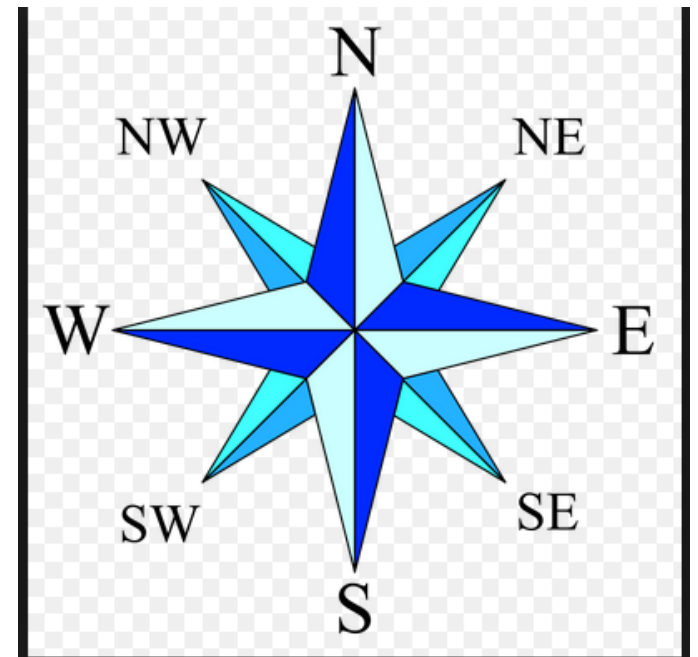
Bar Scale



a ratio which compares a measurement on a map to the actual distance between locations identified on the map

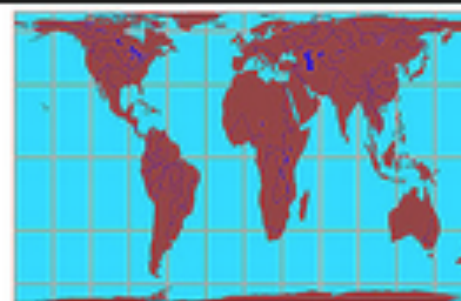
Compass Rose

- Shows the cardinal and intermediate directions on a map.
- Cardinal: North, South, East, and West
- Intermediate: NE, SE, NW, SW
- North and South always!





Mercator Projection



Gall-Peters Projection



Miller Cylindrical Projection



Mollweide Projection



Goode's Homolosine Equal-area Projection



Sinusoidal Equal-Area Projection



Robinson Projection

Small and Large Scale Maps

Comparison of Map Scales



Small-Scale Map

Small Representative Fraction
Portrays Large Area



Large-Scale Map

Large Representative Fraction
Portrays Small Area

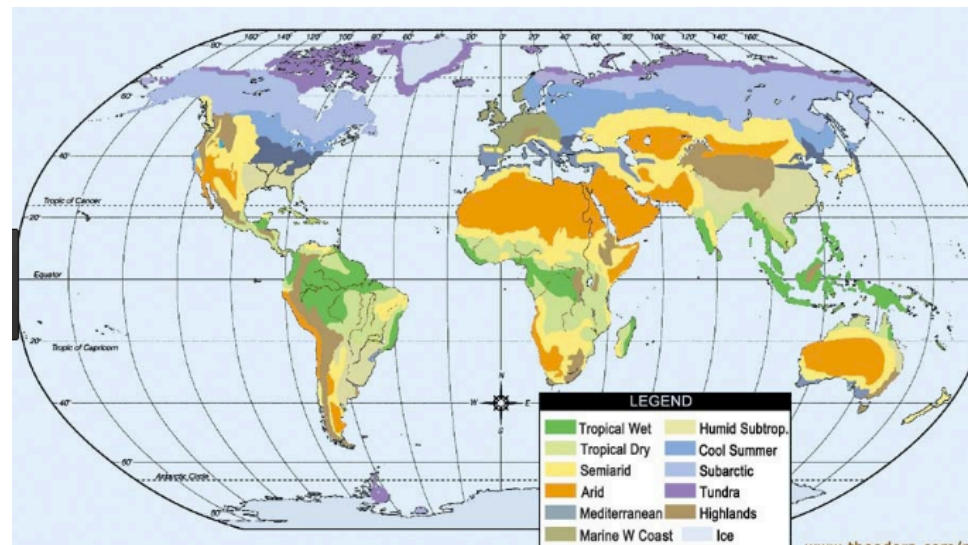
Types of Maps

- **General Purpose:** Show human and physical features. Examples: Political (shows countries and states) and Physical (shows landforms)
Maps



Thematic Maps “theme”

- Special maps with many different kinds of information.
- Examples: Climate, Vegetation, land use...
- Look at the atlas at your desk for examples.



Geospatial Technologies

- Technology that helps humans gather information about the human and physical environment.
- Examples:
 - Global Positioning System (system of system of satellites, control system, and devices) to identify exact location of places on Earth.
 - Geographic Information Systems: a combo of hardware and software to gather, store, and analyze geographic information.
 - Remote Sensing: satellite sensors all over the Earth used to collect data



GPS

GPS Ground Control Stations

Peter H. Dana 5/27/95

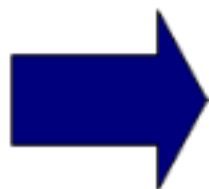
 A world map with five red dots indicating the locations of GPS Master Control and Monitor Stations. The locations are labeled as follows:

- Falcon AFB Colorado Springs
- Master Control Hawaii Monitor Station
- Ascension Island Monitor Station
- Diego Garcia Monitor Station
- Kwajalein Monitor Station

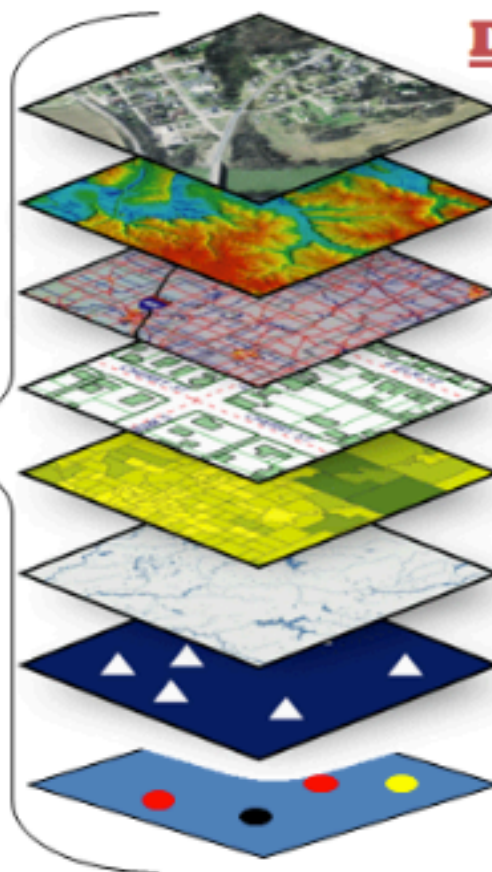
Global Positioning System (GPS) Master Control and Monitor Station Network

Currently there are **only five GPS monitoring station** that feed the Master Control Station.

The Real World



GIS World Model



Data Slices

Imagery

Elevation

Transportation

Addresses

Boundaries

Water Features

Survey Control

Your Data