

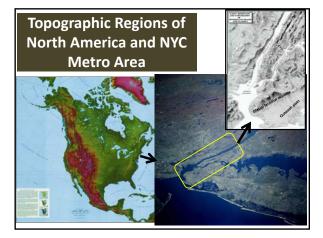
#### LANDFORMS + PEOPLE = LAND USE

Tectonic and gradational forces <u>combine</u> to create unique surface features: topography.

Natural processes (geologic, atmospheric, and hydrologic) are constantly at work altering them. Topographic regions are the result.

**People** live within these regions and need to be aware of/deal with these **on-going processes**.

#### LANDFORMS and LAND USE TOPOGRAPHIC REGIONS Within these regions have unique characteristics are sub-regions called TERRAIN: areas of that can be analyzed: distinct local elevation Elevation and shape. Relief Each region has Slope advantages and Valley shape disadvantages to Climate zones human land use and settlement. Especially true when climate is added.



# **KNOWLEGDE of LANDFORMS**

Why do we need to measure, monitor, map and analyze topographic regions?

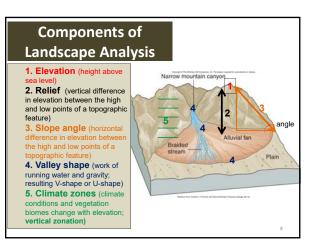
- ✓1. Selective land use
- ✓2. Avoidance of harmful natural processes
- ✓3. Planning future activities
- ✓4. Insurance coverage
- ✓ 5. Access to and/or removal of resources
- WHY?

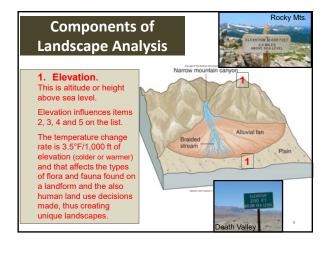
Because of the possible effect on people.

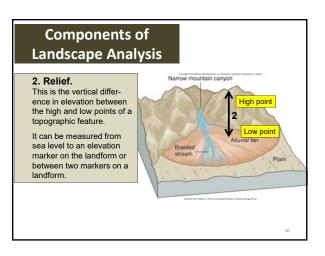
### **Physical Landscape Analysis**

When doing a landscape analysis, we look at these <u>physical</u> factors:

- 1. Elevation (height above sea level)
- 2. Relief (vertical difference in elevation of a topographic feature)
- 3. Slope angle (horizontal difference in elevation)
- 4. Valley shape (work of running water and gravity; V-shape or U-shape)
- 5. Climate zones (climate conditions and vegetation biomes change with elevation)





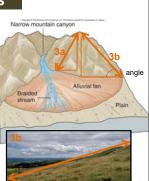


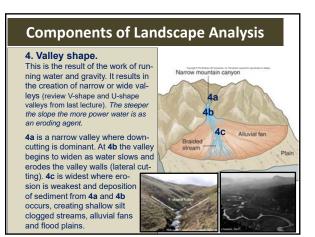
## Components of Landscape Analysis

**3. Slope angle.** This is the horizontal difference in elevation between the high and low points of a topographic feature.

As in geometry, the closer the base points are to each other the steeper, the slope. Likewise, the further apart the base points are, the gentler the slope. On the diagram, 3a is a steeper slope than 3b.

analist.



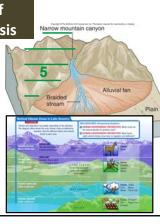


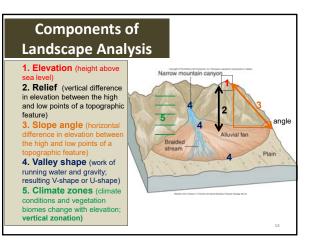
# Components of Landscape Analysis

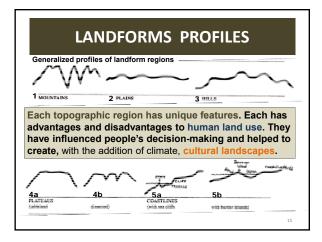
**5. Climate zones.** Climate conditions and vegetation biomes change with elevation.

As you go up the side of a landform and conditions change with elevation, different plants and animals will be found. The greatest number of zones is in tropical areas with the least in the polar region.

Review vertical zonation in the climate lecture.





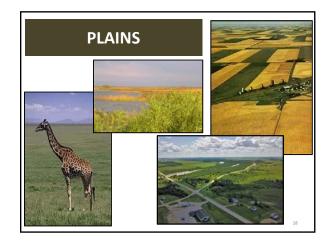


# LANDFORMS and LAND USE

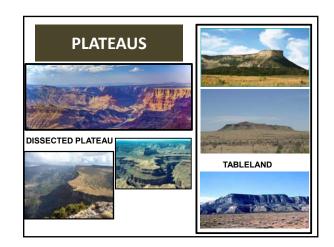
When doing a landscape analysis, we look at the following <u>human</u> factors:

- ✓ 1. Unifier or barrier (people interacting)
- ✓ 2. Assimilation or distinction (cultural development)
- $\checkmark$  3. Transportation and communication (ease/cost)
- ✓4. Population density (concentrations of people)
- ✓ 5. Economic utilization (farming, grazing, industry, mining, recreation, etc.)
- ✓ 6. Hazards (natural and man-made)

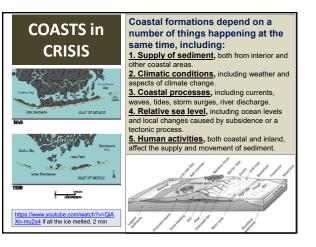






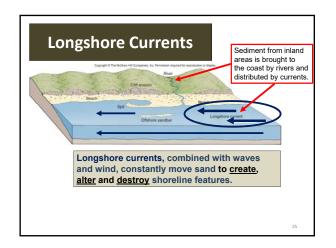












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