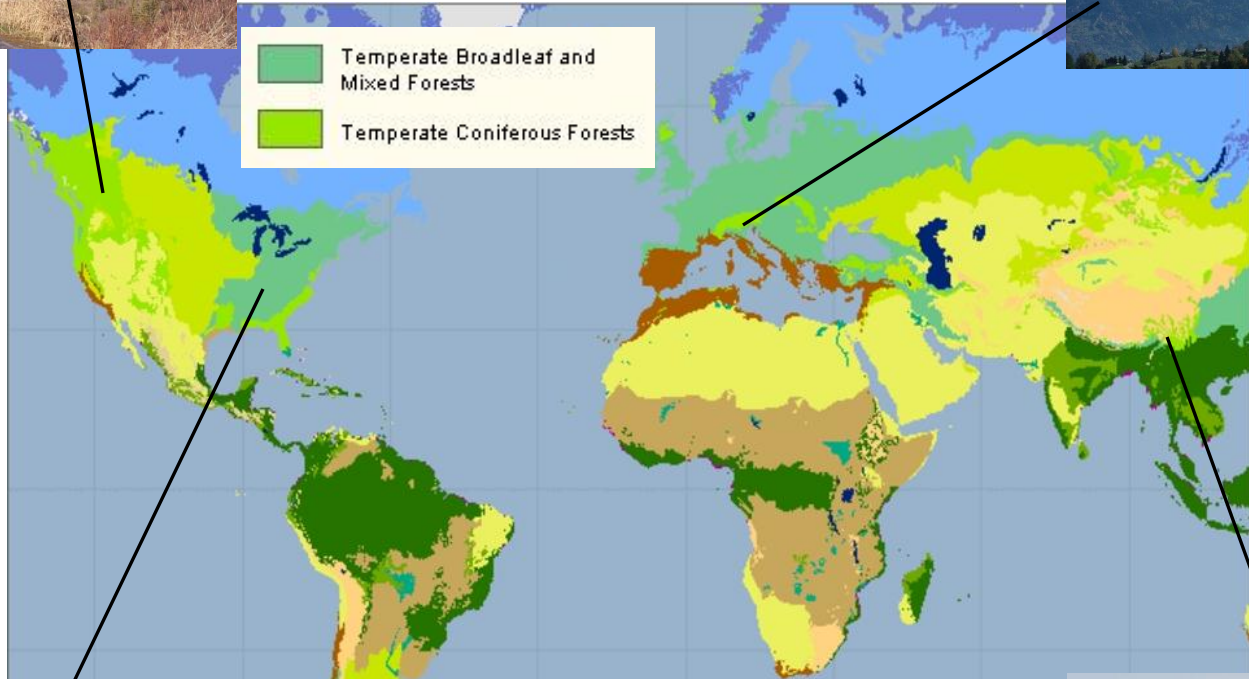
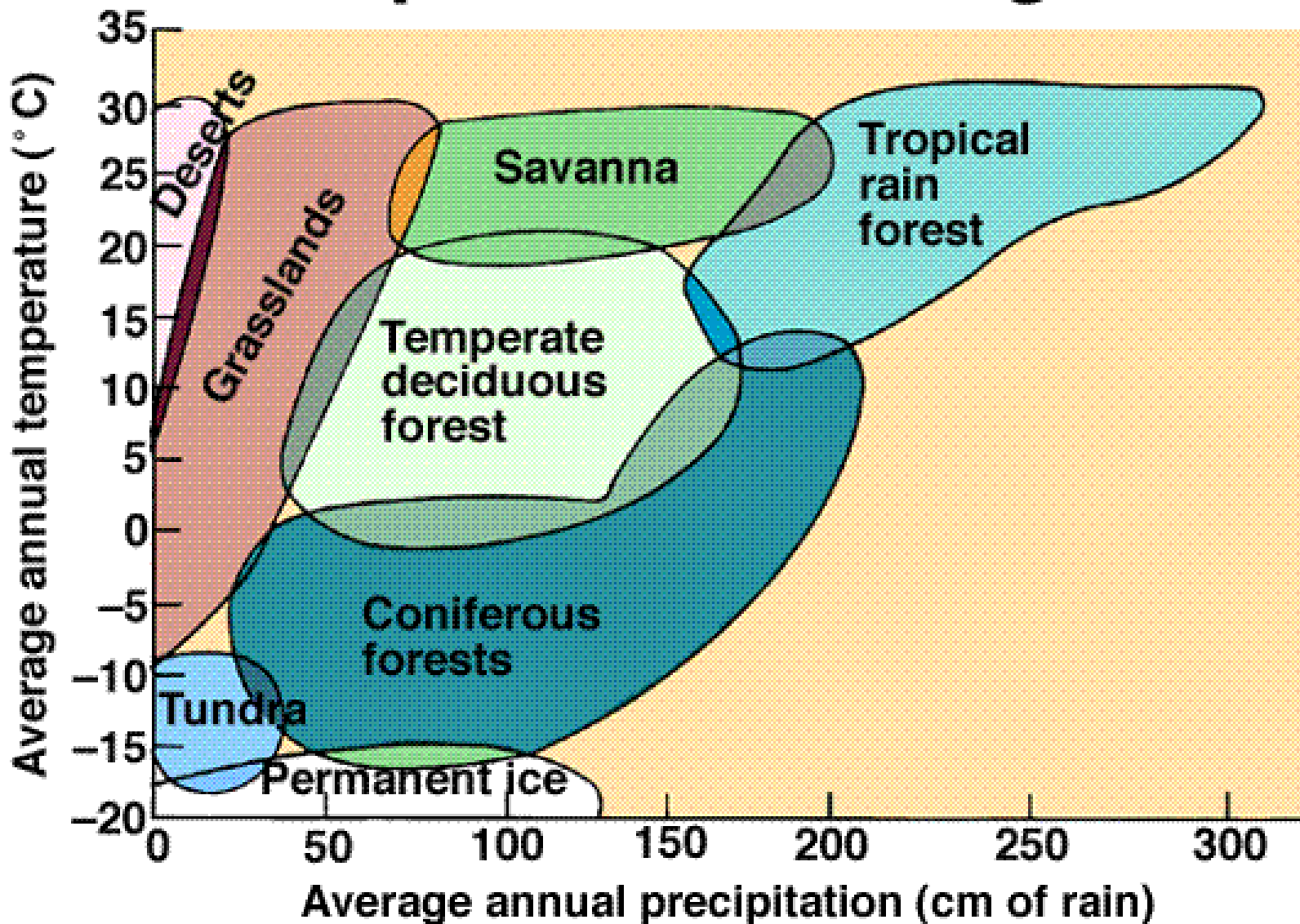




# Montane Temperate Forest

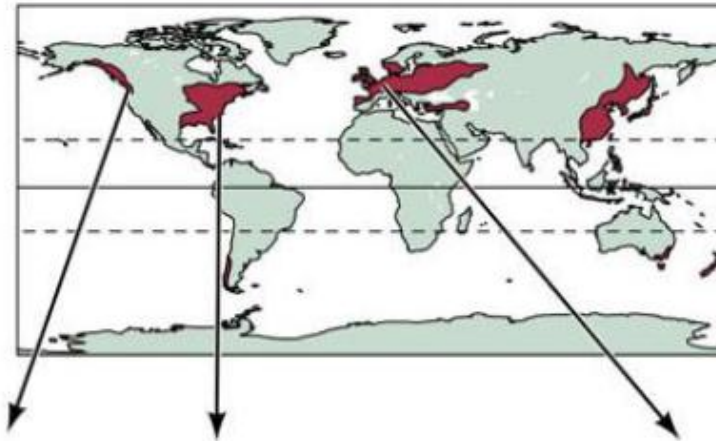


# Influence of Precipitation and Temperature on Vegetation

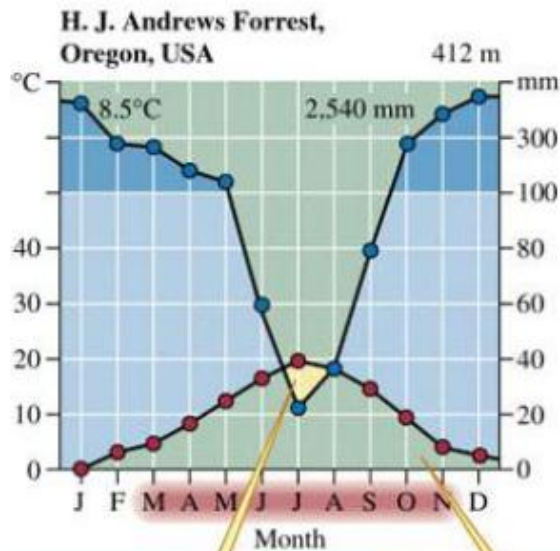


# Temperate Forest

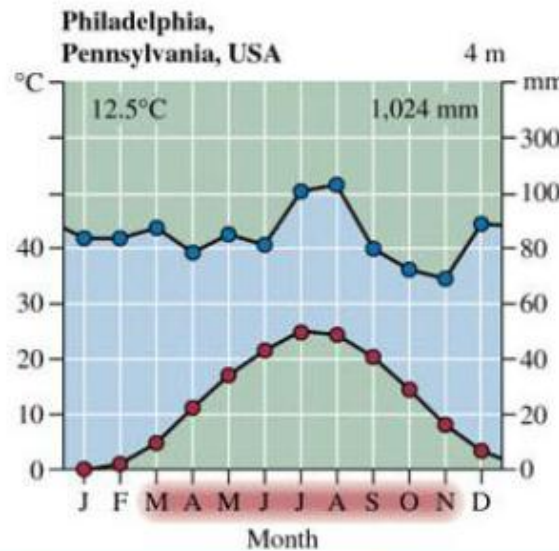
■ Moist   
 ■ Dry   
 ■ Mean minimum temperature >0°C



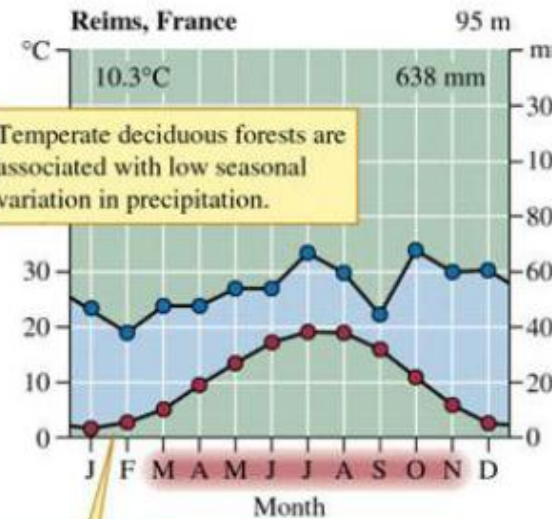
Tropic of Cancer  
 Equator  
 Tropic of Capricorn



Temperate coniferous forests are associated with seasonal drought.



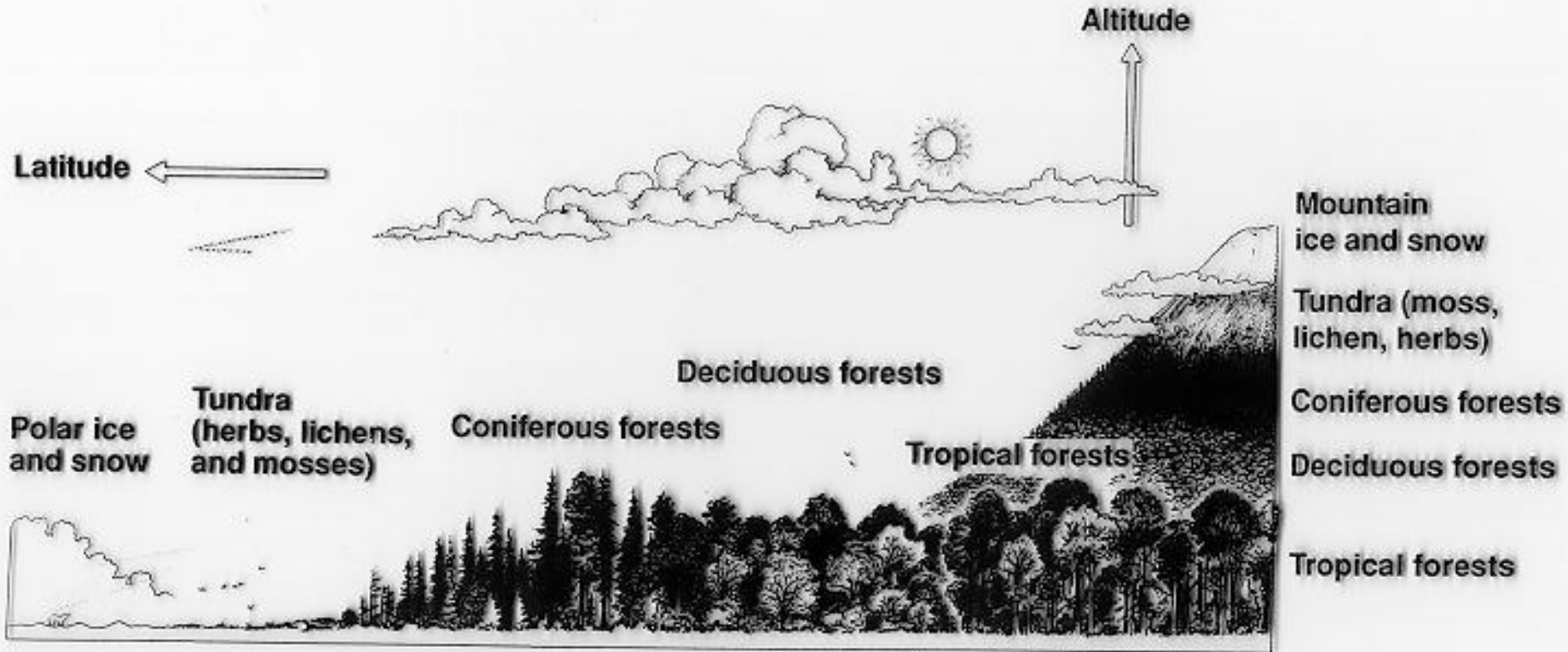
Moderate variation in temperature.



Temperate deciduous forests are associated with low seasonal variation in precipitation.

Moderate variation in temperature.

# Topography



**Humboldt's Rule (1807):**

Moving up 1000m in elevation experiences about the same changes in vegetation communities as traveling 500km north in latitude.

# Local Topography



# Local Exceptions to the Rule?



# Local Exceptions

~4800ft



35% more precip. in Bozeman,  
only ~300ft higher!

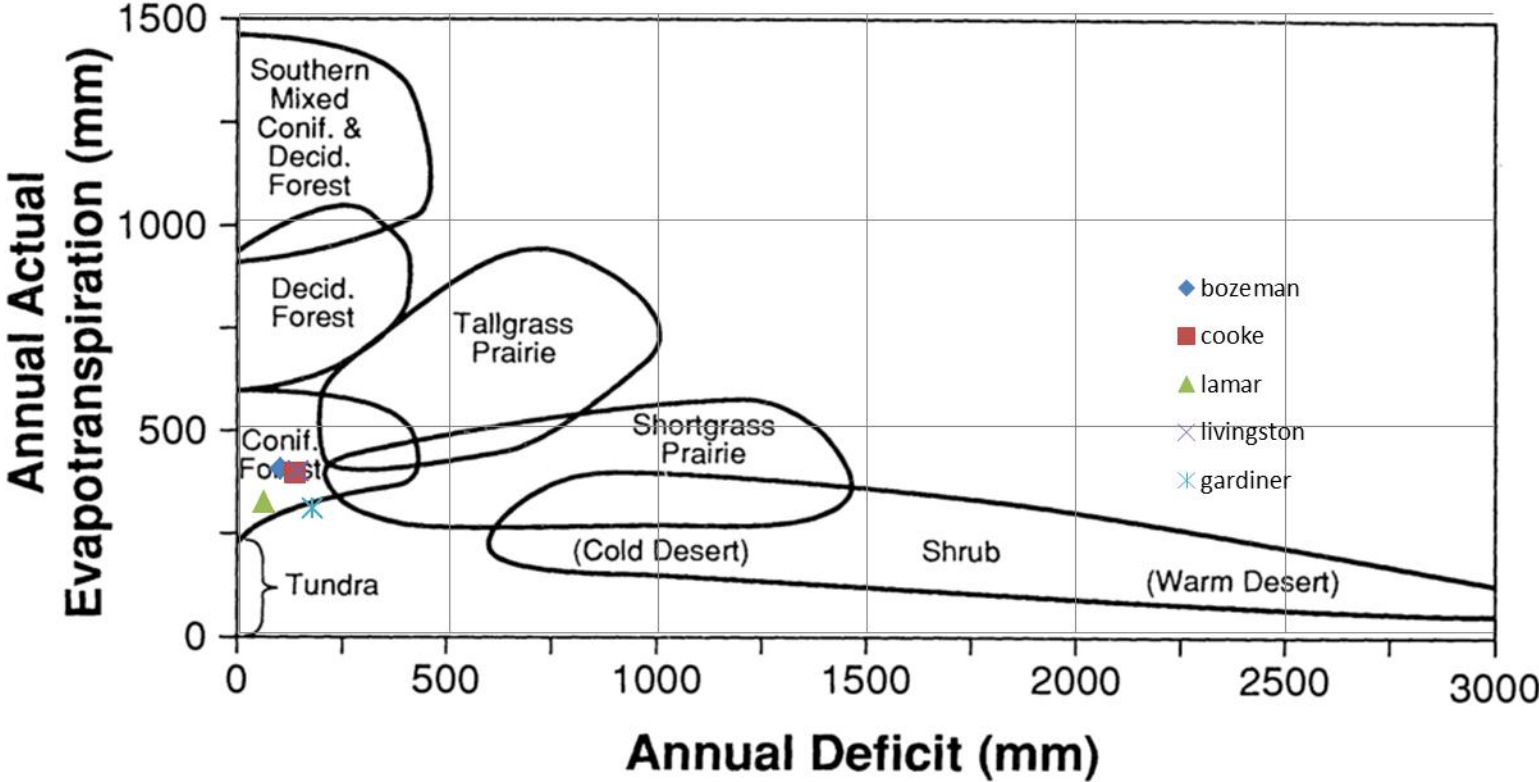
Why is Bozeman so much wetter  
than Belgrade?



~4500ft



# More Local Exceptions





# Vegetation Composition



# Species Diversity



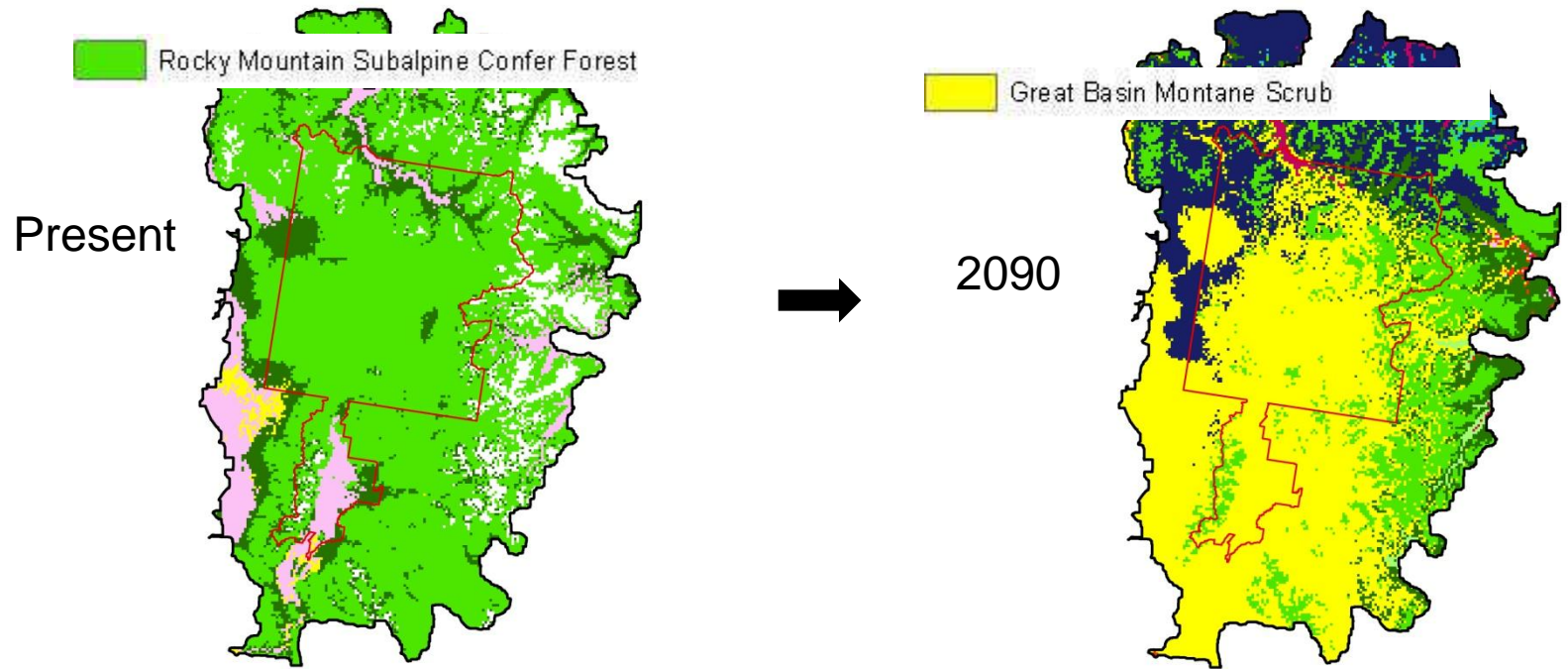
# Human Use



# Past and Future Climate



# Past and Future Climate



(Rehfeldt et al. 2012)

## Some Sources:

- <http://worldwildlife.org/science/wildfinder/>
- Google Earth
- [www.wikipedia.com](http://www.wikipedia.com)
- [www.isiknowledge.com](http://www.isiknowledge.com)
- <http://eros.usgs.gov/imagegallery/>