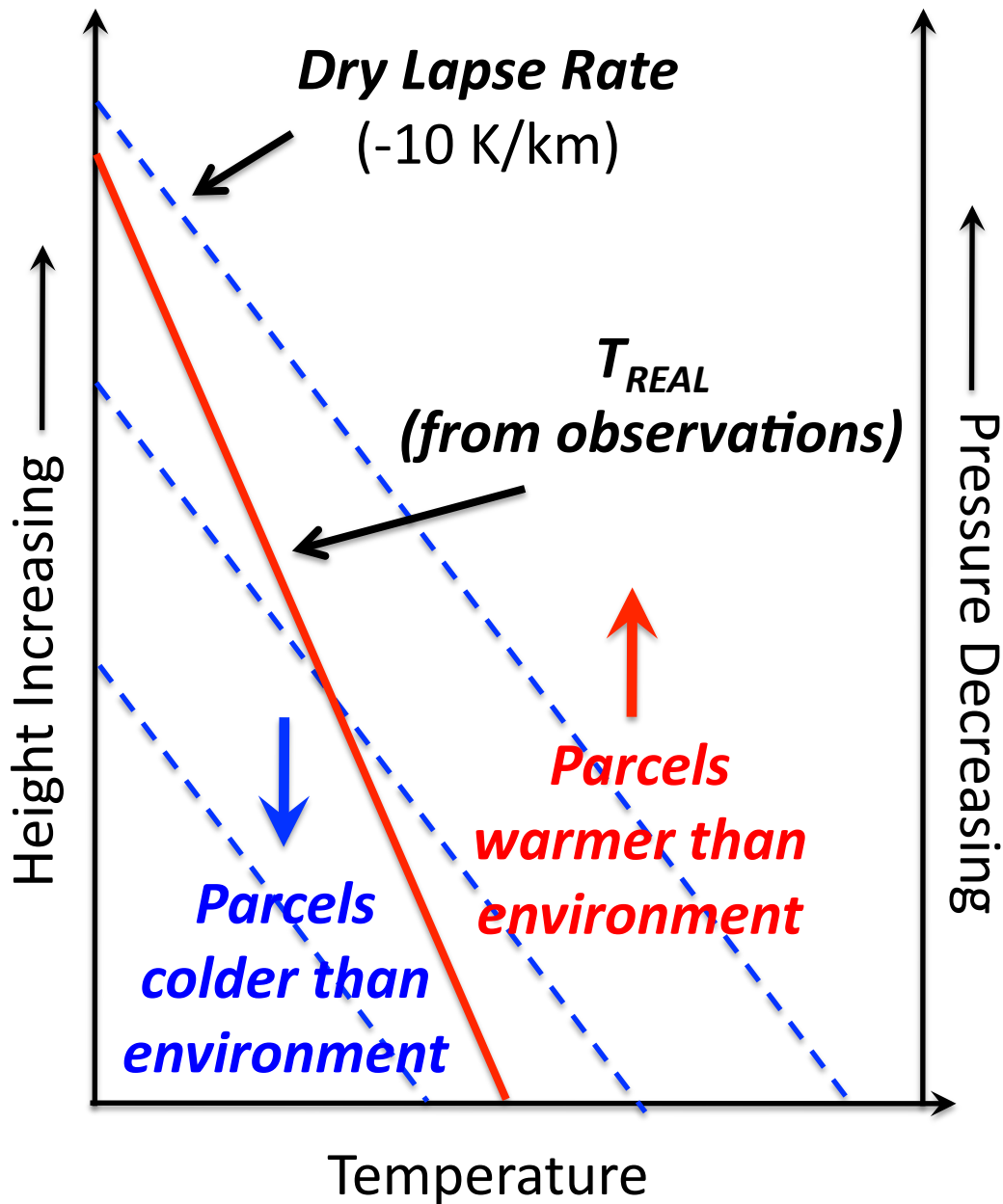
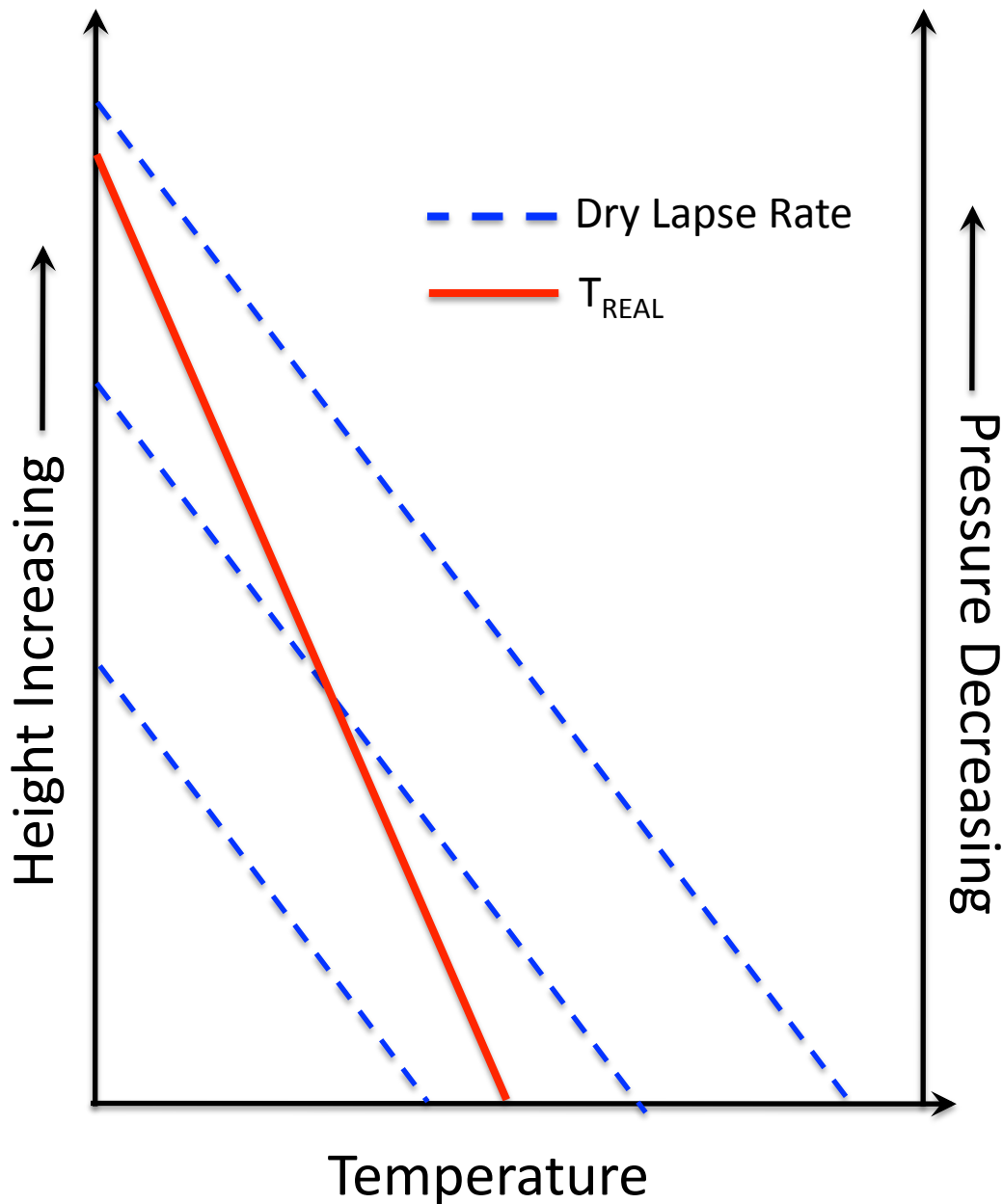


# Determining Stability from Profiles of Temperature (Extend Piece, Tue 7/12/11)

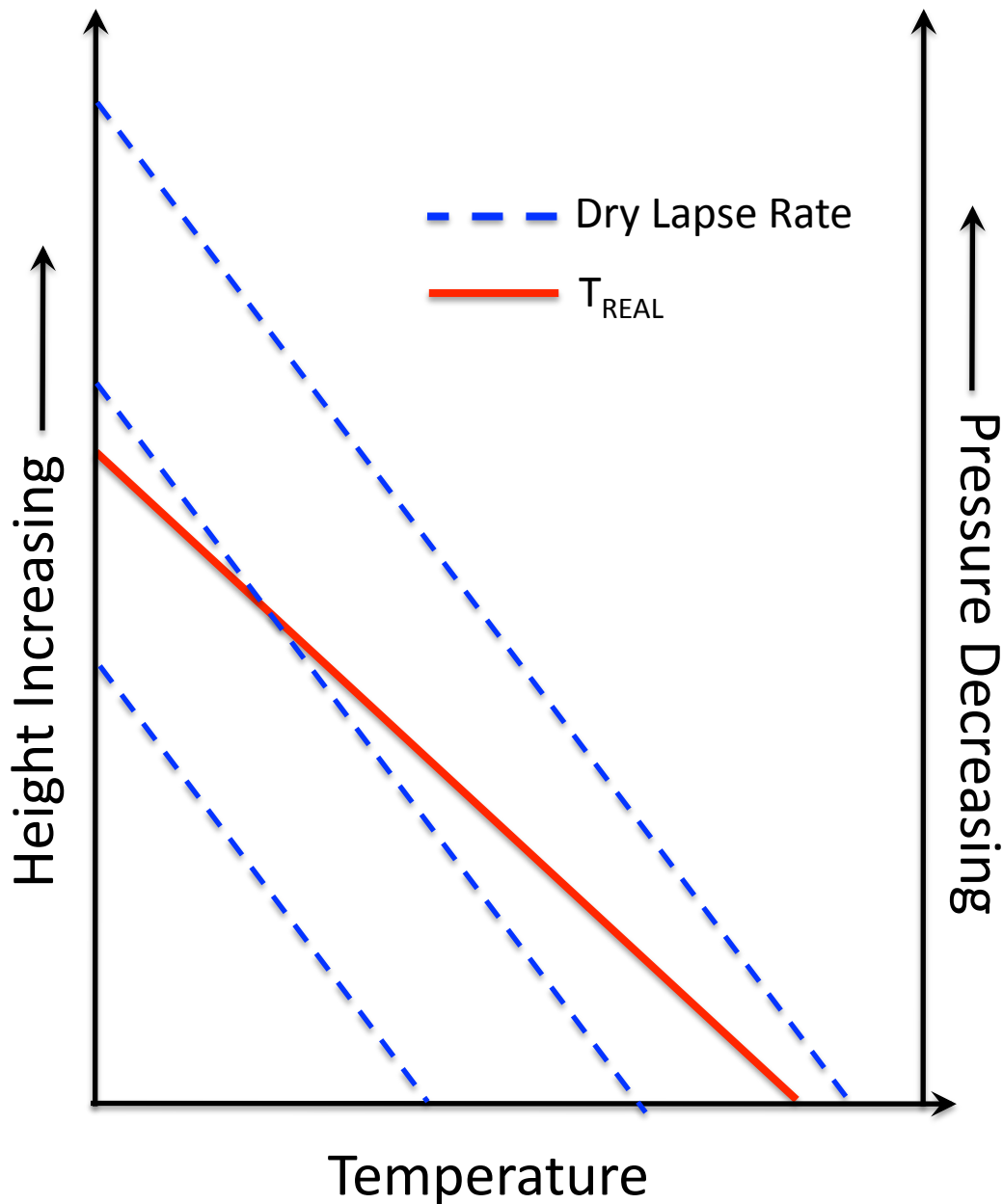


# Determining Stability from Profiles of Temperature



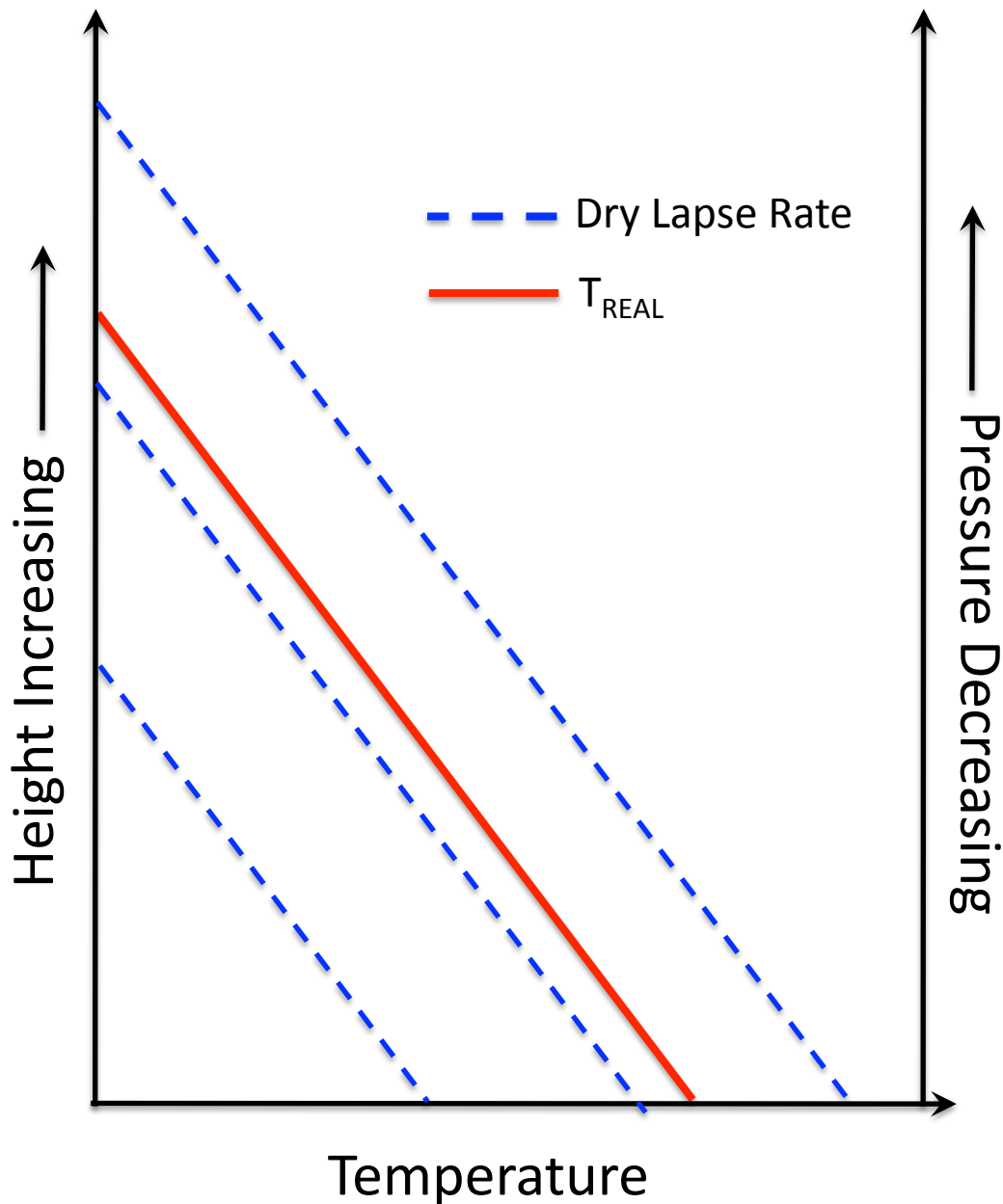
Profile is \_\_\_\_\_  
(stable, unstable, or neutral)

# Determining Stability from Profiles of Temperature



Profile is \_\_\_\_\_  
(stable, unstable, or neutral)

# Determining Stability from Profiles of Temperature



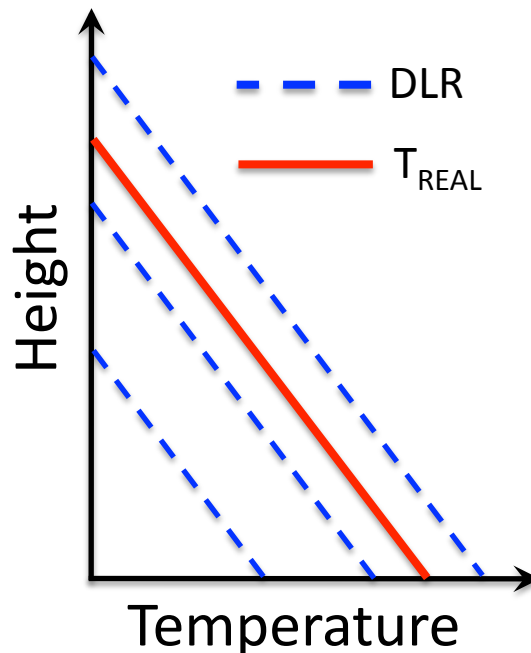
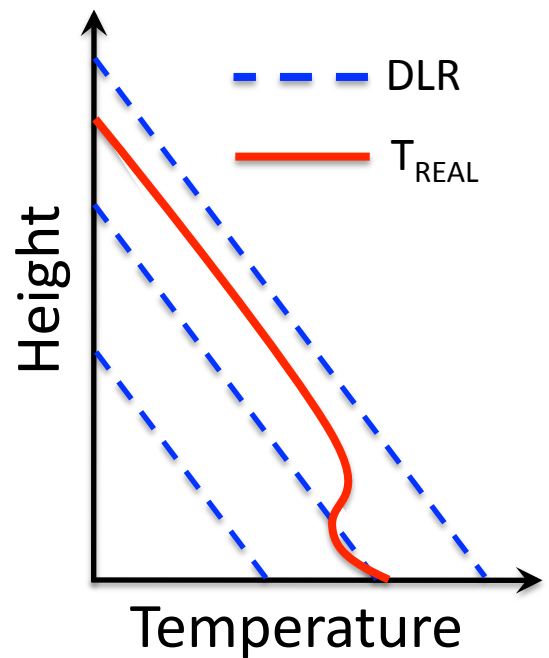
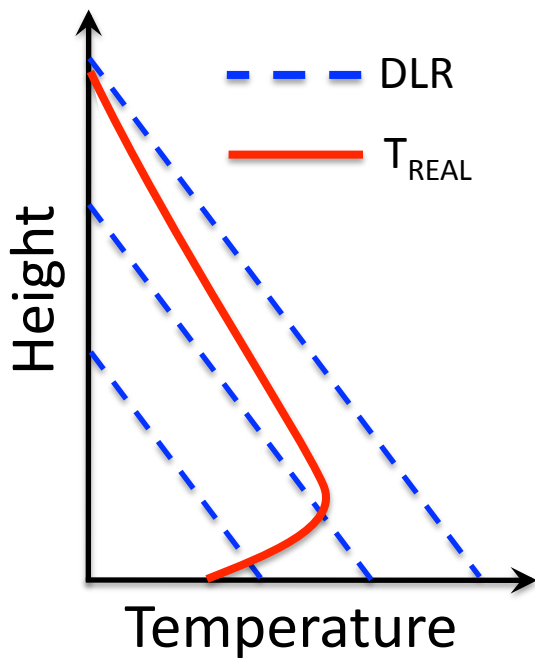
Profile is \_\_\_\_\_  
(stable, unstable, or neutral)

# Profiles for Exercise 1

**Step 1:** Note the path taken by the smoke in the photos and match to the corresponding temperature profile.

**Step 2:** Draw a line on the profile corresponding to the “parcel path” of the smoke exiting the smokestack.

(Hint: assume smoke follows dry lapse rate.)



# Exercise 1 Photos



B

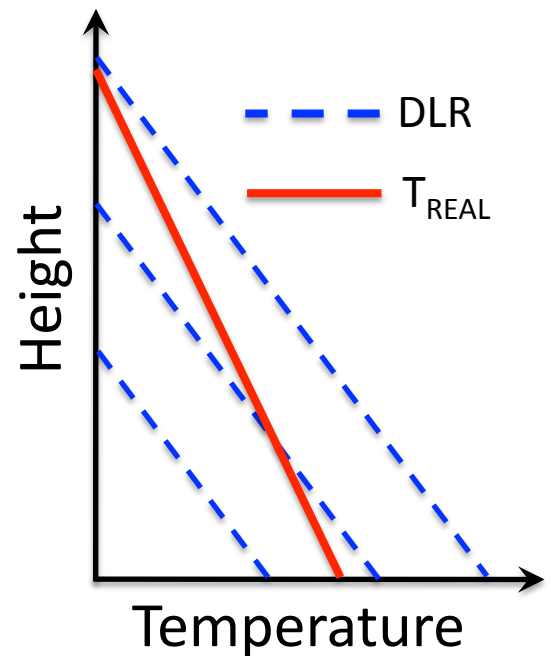
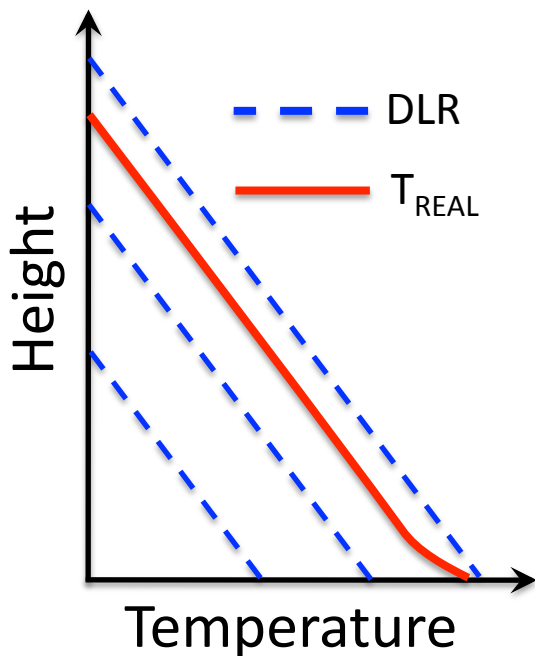
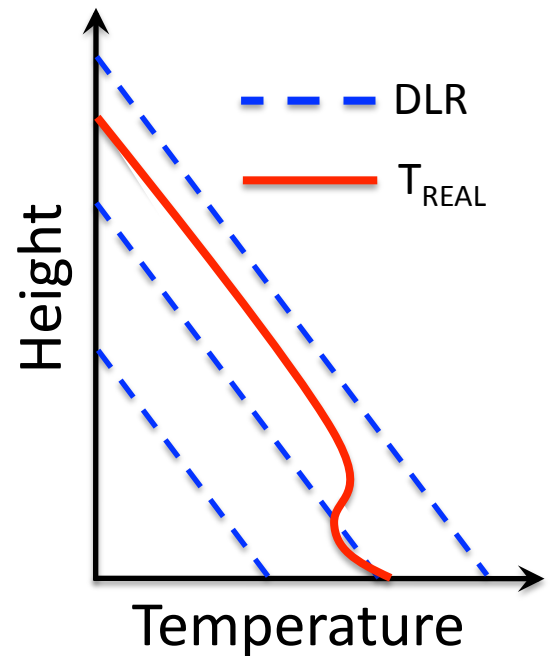
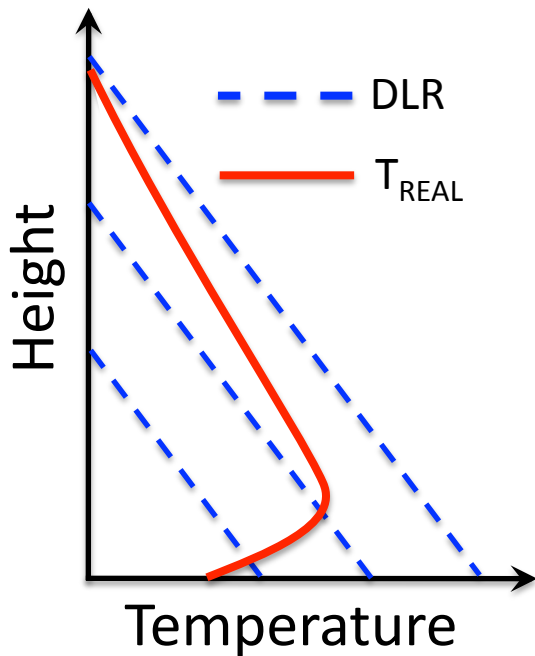


C

A

# Profiles for Exercise 2

Match temperature profiles with photos. (Hint: start by putting photos in order of daytime development during a typical summer day.)

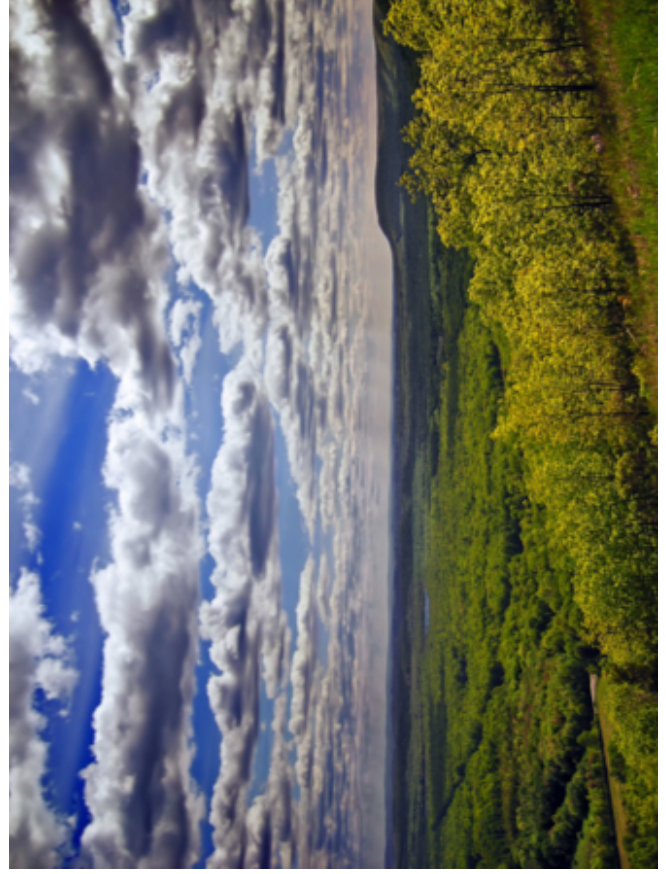


# Exercise 2 Photos



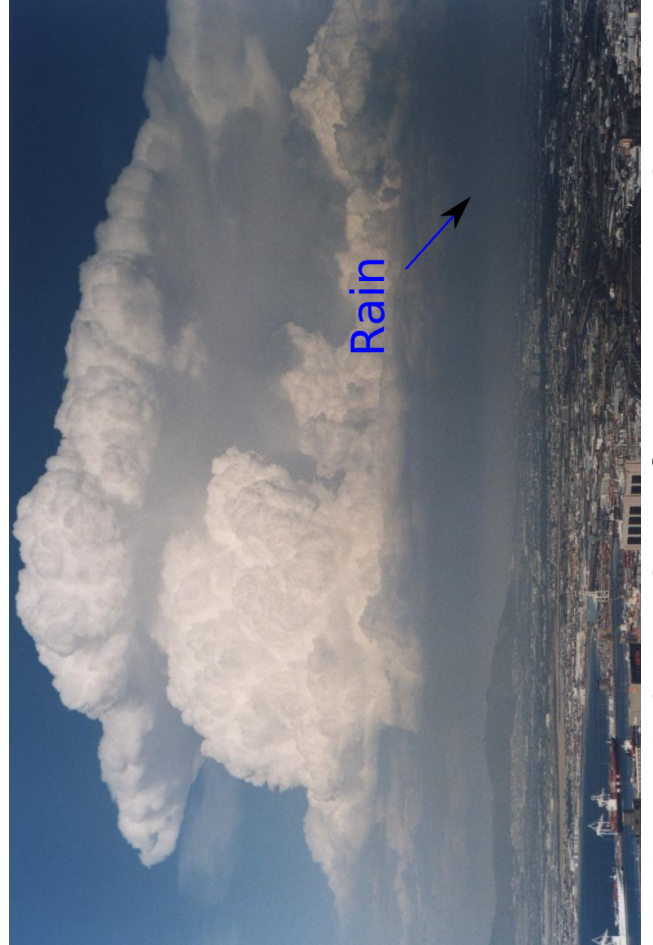
B

D



A

C



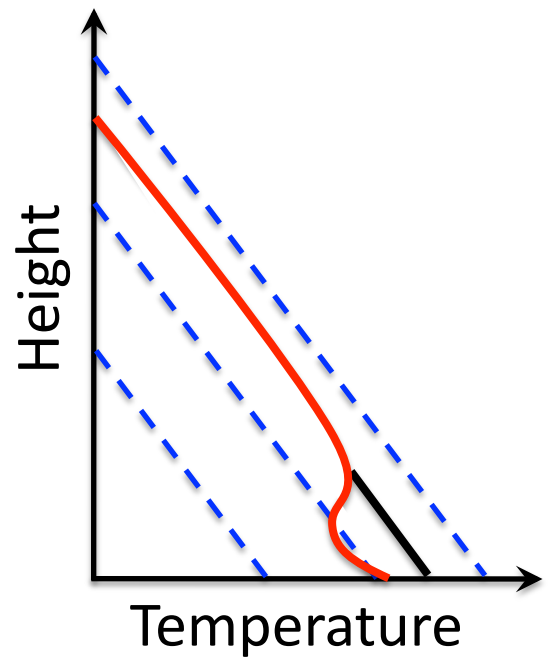
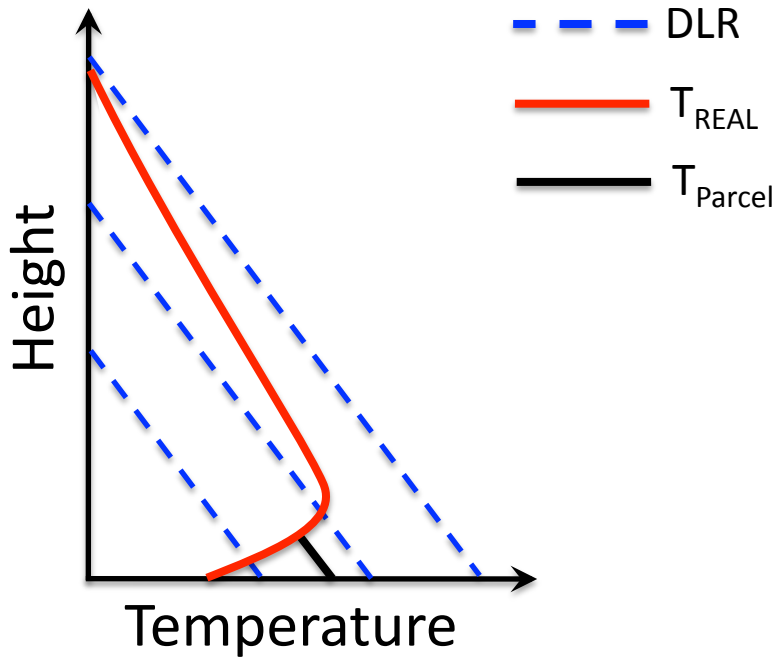
Rain

Sounding taken after rain passed



# Solutions

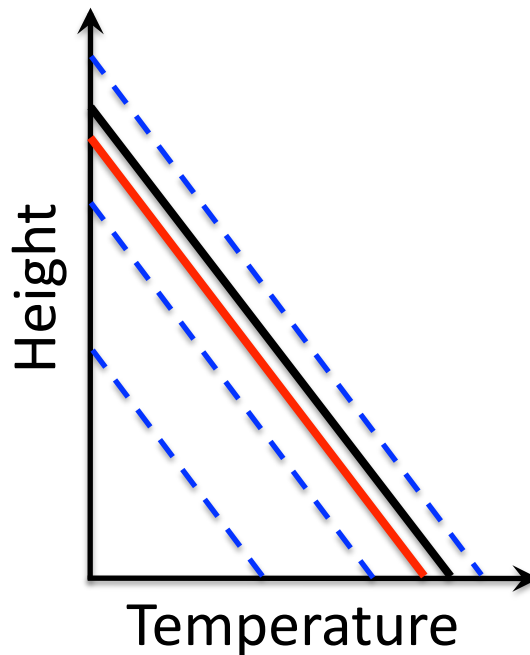
# Exercise 1 Key



B

A

C



# Exercise 2 Key

