

GPH 214 - Plotting Station Models

Using the weather information below, plot the station models in the boxes with proper coding and symbols.

Station 1:

Temperature = 75°F
Dewpoint = 66°F
Pressure = 997.3 mb
Pressure change = 1.9 mb
Pressure tendency = steadily falling (lower than 3 hrs ago)
Current wx = slight rain shower
Wind = south at 20 kt
Middle cloud type = Thick Altostratus, greater part sufficiently dense to hide sun (or moon), or Ns
Low cloud type = Cu & Sc w/ bases at different levels
Sky cover in clouds = 7/10
Height of clouds = 2000-3499 ft

Station 2:

Temperature = 21°F
Dewpoint = 10°F
Pressure = 1011.7 mb
Pressure change = 3 mb
Pressure tendency = rising steadily (higher than 3 hrs ago)
Current wx = none
Wind = calm
High cloud type = Cirrus filaments or “mares tails”, scattered and not increasing
Sky cover in clouds = 4/10

Station 3:

Temperature = 35°F
Dewpoint = 34°F
Pressure = 986.4 mb
Pressure change = 1.3 mb
Pressure tendency = falling then rising (higher than 3 hrs ago)
Current wx = continuous fall of snow, heavy at observation time
Wind = north at 15 kt
Low cloud type = Fs and/or Fc of bad weather (scud)
Sky cover in clouds = 10/10 (overcast)
Past weather = snow
Visibility = ¼ mile
Time of Precipitation = 5 to 6 hrs ago

Station 4:

Temperature = 56°F
Dewpoint = 56°F
Pressure = 1001.5 mb
Pressure change = 1 mb
Pressure tendency = falling then steady (lower than 3 hrs ago)
Current wx = light fog
Wind = calm
Sky cover in clouds = sky obscured
Past weather = rain
Visibility = 1 mile