Determine the listed weather elements for each plotted station model. Omit elements not plotted. According to the longitude and latitude given, please determine the location of the station and the local time at the given UTC. Then please describe the current weather and speculate about the meteorological context. (16.7 pts each, total 100 pts)

**1. 25N, 80W, 18Z (1 pt for each blank)**

1. Wind speed\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Wind direction\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Sky cover\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Temperature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Visibility\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Current weather\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. Dew point\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. Low cloud type\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. Pressure tendency\_\_\_\_\_\_\_\_\_\_\_\_
10. Sea-level pressure\_\_\_\_\_\_\_\_\_\_\_\_
11. Middle cloud type\_\_\_\_\_\_\_\_\_\_\_\_
12. High cloud type\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Location and local time (2pts):

Describe weather conditions (2.7 pts):

**2. 25N, 80W, 00Z (1 pt for each blank)**

1. Wind speed\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Wind direction\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Sky cover\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Temperature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Visibility\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Current weather\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. Dew point\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. Low cloud type\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. Pressure tendency\_\_\_\_\_\_\_\_\_\_\_\_
10. Sea-level pressure\_\_\_\_\_\_\_\_\_\_\_\_
11. Middle cloud type\_\_\_\_\_\_\_\_\_\_\_\_
12. High cloud type\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Location and local time (2pts):

Describe weather conditions (2.7 pts):

**3. 47S, 127E, 06Z (1 pt for each blank)**



1. Wind speed\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Wind direction\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Sky cover\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Temperature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Visibility\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Current weather\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. Dew point\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. Low cloud type\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. Pressure tendency\_\_\_\_\_\_\_\_\_\_\_\_
10. Sea-level pressure\_\_\_\_\_\_\_\_\_\_\_\_
11. Middle cloud type\_\_\_\_\_\_\_\_\_\_\_\_
12. High cloud type\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Location and local time (2pts):

Describe weather conditions (2.7 pts):

**4. 33N 112W, 21Z (1 pt for each blank)**



1. Wind speed\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Wind direction\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Sky cover\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Temperature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Visibility\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Current weather\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. Dew point\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. Low cloud type\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. Pressure tendency\_\_\_\_\_\_\_\_\_\_\_\_
10. Sea-level pressure\_\_\_\_\_\_\_\_\_\_\_\_
11. Middle cloud type\_\_\_\_\_\_\_\_\_\_\_\_
12. High cloud type\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Location and local time (2pts):

Describe weather conditions (2.7 pts):



**5. 37N 122W, 12Z (1 pt for each blank)**

1. Wind speed\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Wind direction\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Sky cover\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Temperature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Visibility\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Current weather\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. Dew point\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. Low cloud type\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. Pressure tendency\_\_\_\_\_\_\_\_\_\_\_\_
10. Sea-level pressure\_\_\_\_\_\_\_\_\_\_\_\_
11. Middle cloud type\_\_\_\_\_\_\_\_\_\_\_\_
12. High cloud type\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Location and local time (2pts):

Describe weather conditions (2.7 pts):

**6. 42N 95W, 18Z (1 pt for each blank)**



1. Wind speed\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Wind direction\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Sky cover\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Temperature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Visibility\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Current weather\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. Dew point\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. Low cloud type\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. Pressure tendency\_\_\_\_\_\_\_\_\_\_\_\_
10. Sea-level pressure\_\_\_\_\_\_\_\_\_\_\_\_
11. Middle cloud type\_\_\_\_\_\_\_\_\_\_\_\_
12. High cloud type\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Location and local time (2pts):

Describe weather conditions (2.7 pts):