Can You Explain Why These Instruments and Conditions Changed When the Barometer Dropped?

October 3rd Through October 9th

<table>
<thead>
<tr>
<th>Date</th>
<th>Barometer Air Pressure</th>
<th>Thermometer Temperature</th>
<th>Anemometer Wind Speed</th>
<th>Weather Vane Wind Direction</th>
<th>Rain Gauge Rainfall</th>
<th>Ruler Snowfall</th>
</tr>
</thead>
<tbody>
<tr>
<td>October 3</td>
<td>30.15</td>
<td>75 Degrees</td>
<td>10 mph</td>
<td>South</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>October 4</td>
<td>29.85</td>
<td>80 Degrees</td>
<td>20 mph</td>
<td>South</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>October 5</td>
<td>29.65</td>
<td>85 Degrees</td>
<td>30 mph</td>
<td>South</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>October 6</td>
<td>29.55</td>
<td>50 Degrees</td>
<td>20 mph</td>
<td>North</td>
<td>.76 inches</td>
<td>None</td>
</tr>
<tr>
<td>October 7</td>
<td>29.85</td>
<td>55 Degrees</td>
<td>10 mph</td>
<td>North</td>
<td>.5 inches</td>
<td>None</td>
</tr>
<tr>
<td>October 8</td>
<td>30.00</td>
<td>65 Degrees</td>
<td>5 mph</td>
<td>North</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>October 9</td>
<td>30.15</td>
<td>70 Degrees</td>
<td>5 mph</td>
<td>NW</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

1. What happened to the temperature when the barometer began to drop?

________________________________________________________________________

2. Why did the temperature do this?

________________________________________________________________________

3. What happened to the wind speed when the barometer began to drop?

________________________________________________________________________

4. Why did the wind do this?

________________________________________________________________________

5. When the barometer reached its lowest point what happened to the wind direction?

________________________________________________________________________

6. Why did the wind do this?

________________________________________________________________________

7. When the barometer reached its lowest point what happened to the precipitation?

________________________________________________________________________

8. Why did this happen in question number 7?
9. Why didn’t it snow?

10. What happened to the temperature when the barometer began to rise?

11. Why did the temperature do this?

12. What happened to the wind speed when the barometer began to rise?

13. Why did the wind do this?

14. What happened to the precipitation when the barometer began to rise?

15. If the barometer continues to rise, what do you predict the weather will be?
   a. Temperature? ________________________________________________
   b. Wind Speed? ________________________________________________
   c. Wind Direction? _____________________________________________
   d. Precipitation? ______________________________________________

16. What will happen to the precipitation when the barometer drops again and the temperature gets below freezing?