

**FIGURE 18- ALTOCUMULUS CASTELLATUS**



**FIGURE 19 — ALTOCUMULUS LENTICULARIS**



### EXERCISE 3: CLOUDS AS WEATHER INDICATORS

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MATCH THE CLOUDS (LEFT) WITH THE EXISTING OR PROBABLE WEATHER CONDITIONS (RIGHT).

- |                                   |   |
|-----------------------------------|---|
| _____ Cirrostratus                | A. When seen in morning could mean thunderstorms later in the day.                |
| _____ Cumulus                     | B. A rapidly approaching cold front with strong shifting winds.                   |
| _____ Cumulonimbus (Thunder-head) | C. An approaching warm front with possible rain.                                  |
| _____ Wall of Cumulus and/or dust | D. Unstable atmosphere.   |
| _____ Altocumulus castellatus     | E. Stable atmosphere at least at cloud level. Possible drizzle.                   |
| _____ Altocumulus lenticularis    | F. Possible cool downdrafts of strong, gusty winds, and higher relative humidity. |
| _____ Stratus                     | G. Strong winds aloft that could surface later.                                   |

**CHECK YOUR ANSWERS WITH THOSE ON PAGE 26.**

# ANSWERS TO EXERCISES

## EXERCISE 1

- |                                     |                                 |
|-------------------------------------|---------------------------------|
| <u>C</u> Adiabatic process          | <u>H</u> Relative humidity      |
| <u>F</u> Dew or frost               | <u>G</u> Temperature            |
| <u>D</u> Dew point                  | <u>B</u> Temperature lapse rate |
| <u>A</u> Equilibrium vapor pressure | <u>E</u> Vapor pressure         |

## EXERCISE 2:

1. DP 7°, RH 6%
2. Very dry
3. DP 45°, RH 27%
4. DP 41°, RH 30%

## EXERCISE 3:

- |                          |                                   |
|--------------------------|-----------------------------------|
| <u>C</u> Cirrostratus    | <u>A</u> Altocumulus castellatus  |
| <u>D</u> Cumulus         | <u>G</u> Altocumulus lenticularis |
| <u>F</u> Cumulonimbus    | <u>E</u> Stratus                  |
| <u>B</u> Wall of Cumulus |                                   |