

Chapter 15 Weather

RFC#1

p. 422 – 431

1. Define Weather.
2. What are several factors that determine the state of the atmosphere?
3. Weather is caused by the interaction of what 3 items?
4. EXPLAIN how the atmosphere is like a sponge?
5. What is Humidity?
6. Why can warmer air hold more water? EXPLAIN
7. Looking at figure 15-2 answer the following questions.
 - a. How much water can be held in the atmosphere at 30 degrees C.?
 - b. At what temperature can the air only hold 30 grams per cubic meter?
 - c. What is the difference between 45 degrees and 10 degrees Celsius with respect to how much water the atmosphere can hold?
8. How is relative humidity different than humidity? (use p. 424)
9. When the air contains as much moisture as possible it is said to be _____.
10. What is the dew point and how does it form?
11. Explain how do clouds form? How are they classified?
12. What are the 3 main types of clouds? Copy the chart below and fill in the answers.

Type of Cloud	Appearance	Weather Associated

13. What do the following prefixes mean with respect to clouds?
 - a. Alto
 - b. Cirro
14. What are nimbus clouds? What is significant about cumulonimbus clouds?
15. According to figure 15-6 how does wet snow form?
16. According to figure 15-6 how does hail form?
17. What are the four main types of precipitation?

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