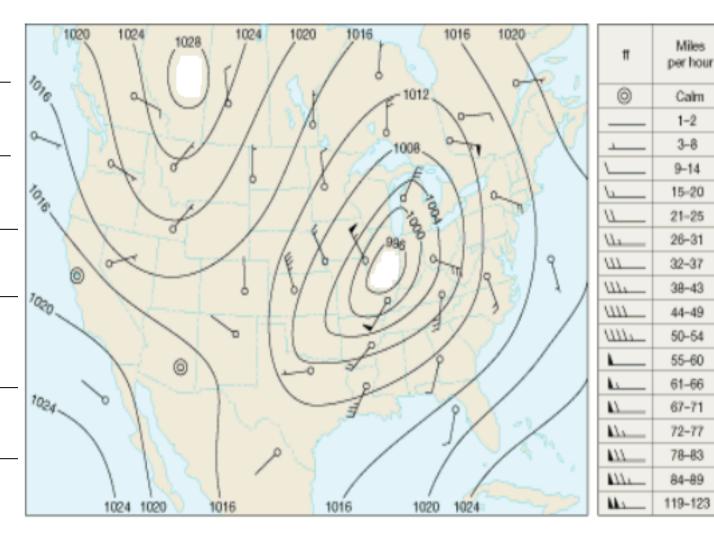
Weather stations all around the US report wind speed and direction into a database that everyone can access.

Using your knowledge of isobars and air movement in low and high pressure systems, label the map with a red L and a blue H. (2pts) Check out this website: http://hint.fm/wind/

- 1. Where is there nice weather?
- 2. Where is there precipitation occurring?
- 3. Who is experiencing higher winds, Michigan or California?
- 4. How fast are the Michigan winds?
- 5. Where is the wind coming from at the Mackinaw bridge? (what direction?)
- 6. What does a double circle mean?
- 7. What do they do to the "tail" of the station model to show faster wind speeds?



8. Where would we see clouds on this map? (do clouds form during warm rising air, or cold sinking air?)

STATION MODEL GLOUD GOVER LAD

Study the weather map symbol chart, paying close attention to the cloud cover symbols. Now, using the map to the right, answer the following questions.

- 1. Which states are experiencing a lot of cloud cover?
- 2. Is cloud cover associated with nice, dry weather or rainy, wet weather?
- 3. Look at the wind directions. Which state seems to have most of the wind pointed toward it?
- 4. When all this wind arrives at the central location (and hits all the other wind), where will the air move next?
- 5. Over which state(s) is there a low pressure system?
- 6. Over which state(s) is there an anticyclone?
- 7. What type of air mass would create the 71 degree weather in Tennessee?
- 8. What type of air mass would create the 38 degree weather in South Dakota?
- 9. When there is a big difference between the temperature and the dewpoint, the air is generally more dry. When the temperature and dew point are closer, rain can fall easily (with a small temperature drop) Which 2 states are experiencing precipitation right now?
- 10. Is it rain or snow in these 2 states?
- 11. Which state is very far from the possibility of rain?

