



Student Activity Sheet: Mapping the Pineapple Express

Hunting for the Pineapple Express Activity, Satellites and Weather Teaching Box

DIRECTIONS ▶ The map at the right shows how much water vapor COSMIC satellites measured in the atmosphere. It's measured as *precipitable water*, which is the amount of water in the air, measured in millimeters, as if it were liquid. **Follow the steps below to figure out where the Pineapple Express is located and which locations along the coast are in its path.**

1. Color the dots to help you see the pattern. Label the colors in the key.

- 20.0 or greater
- between 10.0 and 19.9
- less than 10.0

2. On the map, draw the boundary of the atmospheric river, known as the Pineapple Express, as a line between the less than 10.0 dots and the higher than 10.0 dots. In places where you are uncertain of its exact location, use a dotted line.

3. Make predictions: *Which locations labeled with black dots do you think:*

- will have rain?
- will not have rain?
- might have rain?

Map of Water Vapor Data, Midnight to Noon, November 7, 2006

