



## Valley Fog Canada

Fog is essentially a cloud lying on the ground. Like all clouds, it forms when the air reaches its dew point—the temperature at which an air mass is cool enough for its water vapor to condense into liquid droplets.

This false-color image shows valley fog, which is common in the Pacific Northwest of North America. On clear winter nights, the ground and overlying air cool off rapidly, especially at high elevations. Cold air is denser than warm air, and it sinks down into the valleys. The moist air in the valleys gets chilled to its dew point, and fog forms. If undisturbed by winds, such fog may persist for days. The Terra satellite captured this image of foggy valleys northeast of Vancouver in February 2010.