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In physics and fluid mechanics, a boundary layer is the layer of fluid in the immediate vicinity of a bounding surface where the effects of viscosity are significant. In the Earth's atmosphere, the atmospheric boundary layer is the air layer near the ground affected by

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diurnal heat, moisture,  
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or momentum transfer  
to or from the surface.

On an aircraft wing the  
boundary layer is the  
part of the flow close to  
the wing, where viscous  
forces distort the  
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atmosphere Tropopause  
~ 11 km ~ 1-2 km

Troposphere Earth

$\frac{3}{4}$  Often only the lowest  
2 km are directly  
modified by the  
boundary layer (BL).

$\frac{3}{4}$  The boundary layer is  
that part of the  
troposphere that is  
directly influenced by

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the presence of the earth ' s surface, and responds to surface forcing with a timescale of about an hour or less.

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which this condition  
modifies the general  
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layer is the layer of fluid  
in the immediate  
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of viscosity are

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significant. In the Earth's atmosphere, the atmospheric boundary layer is the air layer near the ground affected by diurnal heat, moisture, or momentum transfer to or from the surface. On an aircraft wing the boundary layer is the part of the flow close to the wing, where viscous forces distort the surrounding non-viscous

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an essential condition is that the velocity at any point on the wall or other fixed surface is zero. The extent to which this condition modifies the general character of the

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