

# Pentagon Flyover: Disproved by Missing Wingtip Vortices

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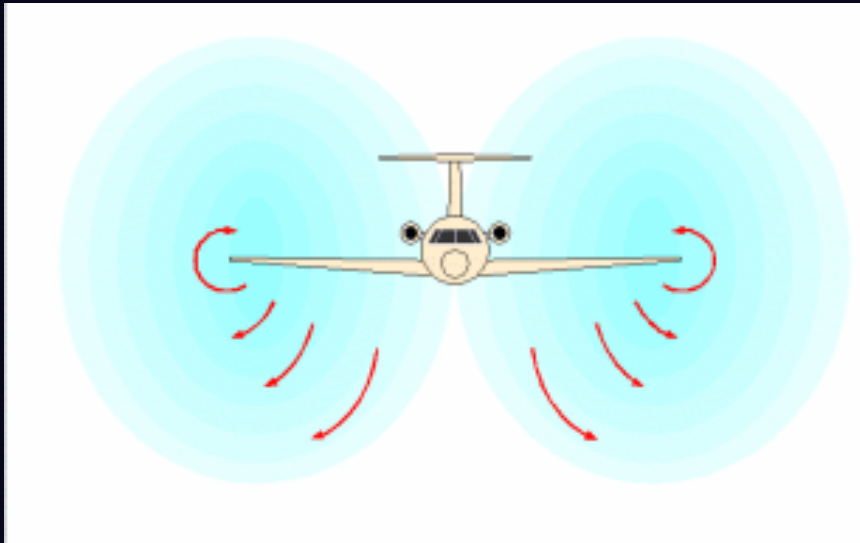


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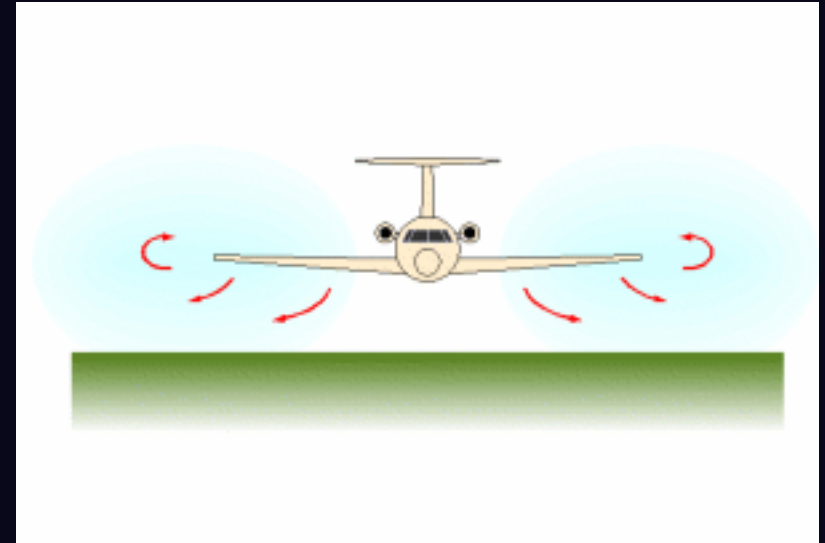
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# Wingtip Vortices: Circulating Air Currents Around Wings

Wingtip vortices move air from high pressure below the wing – around wing of aircraft – to low pressure above the wing



More than half a wingspan above the ground



Less than half a wingspan above the ground improves wing performance

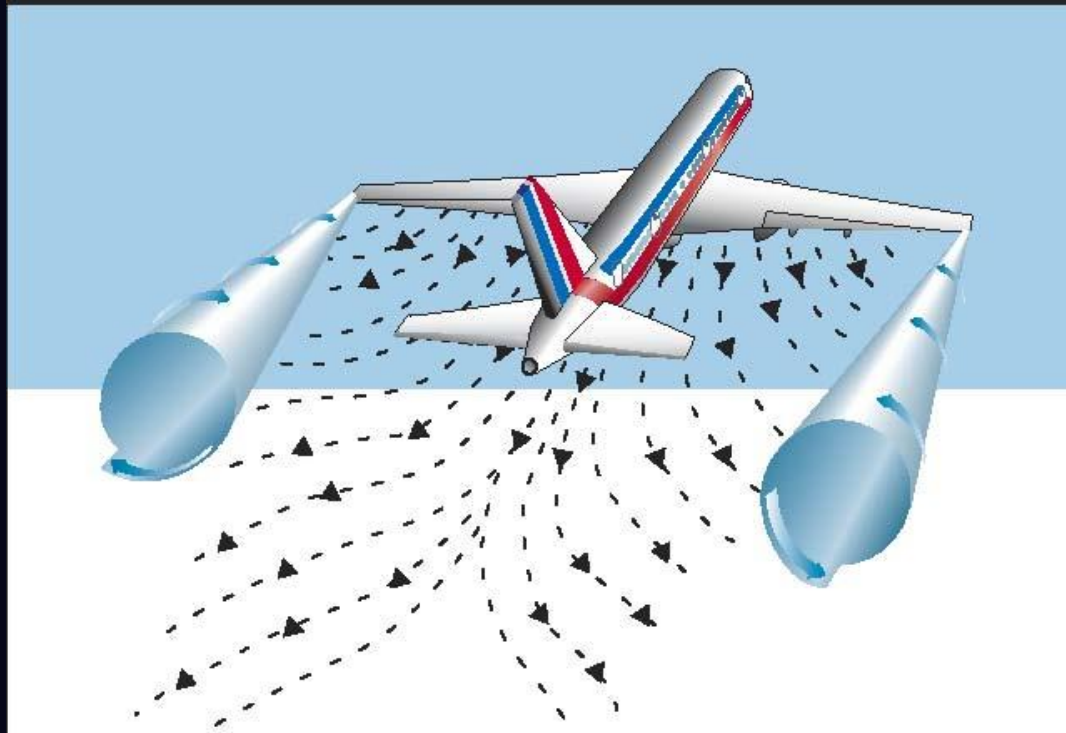


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# Wingtip Vortices Extend Behind an Airborne Aircraft

As shown in this image, higher pressure air under a wing's "downwash" moves outward and then upward to lower pressure air. Sustains the wingtip vortices



Source: [https://www.americanflyers.net/aviationlibrary/pilots\\_handbook/chapter\\_12.htm](https://www.americanflyers.net/aviationlibrary/pilots_handbook/chapter_12.htm)

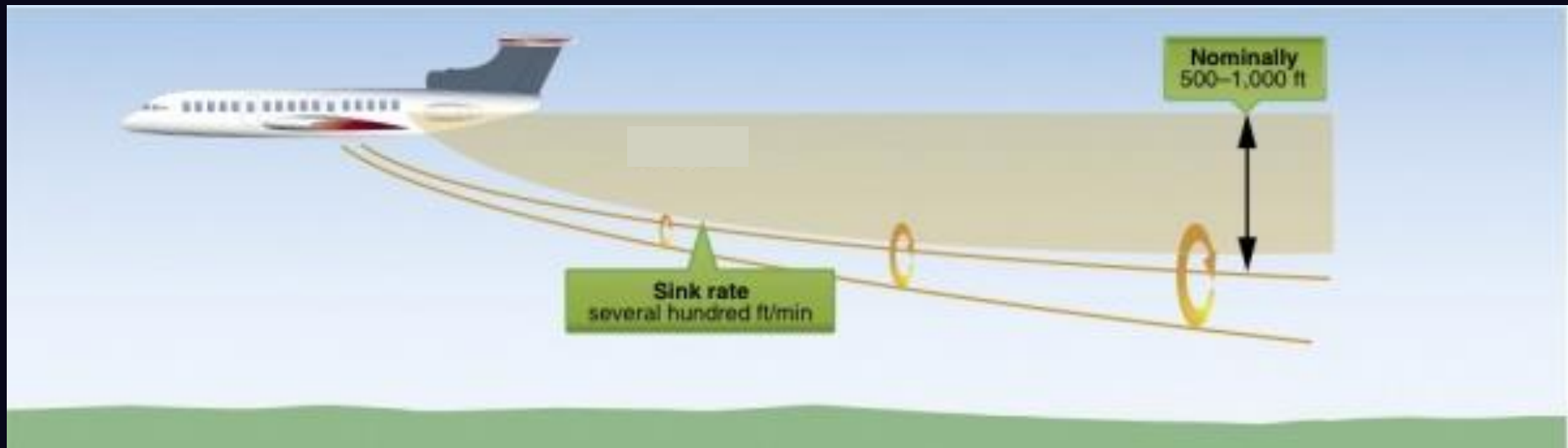


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# Wingtip Vortices Travel Behind an Aircraft

Wingtip vortices sink rate of “several hundred feet per minute”  
This translates to dozens of feet per second



Source: <http://mt.ivao.aero/training/index.php/pilot/fs2-flight-student/basic-aerodynamics>



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# Wingtip Vortices: All Moving Aircraft Create This Effect

Effect of wingtip vortices and downwash evident in clouds (and smoke)



Source: <http://mt.ivao.aero/training/index.php/pilot/fs2-flight-student/basic-aerodynamics>



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# Wingtip Vortices: Circulating Air Currents Around Wings

Example of wingtip vortices from a cropduster



Source: <http://howthingsfly.si.edu/media/wing-tip-vortex>



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# C-5A Wing Vortice tests at NASA Langley Research Center

Evidence of vortices are present in the area after a plane passes

C-5A Wing Vortice tests at NASA Langley Research Center



Source: <https://www.youtube.com/watch?v=uy0hgG2pkUs>

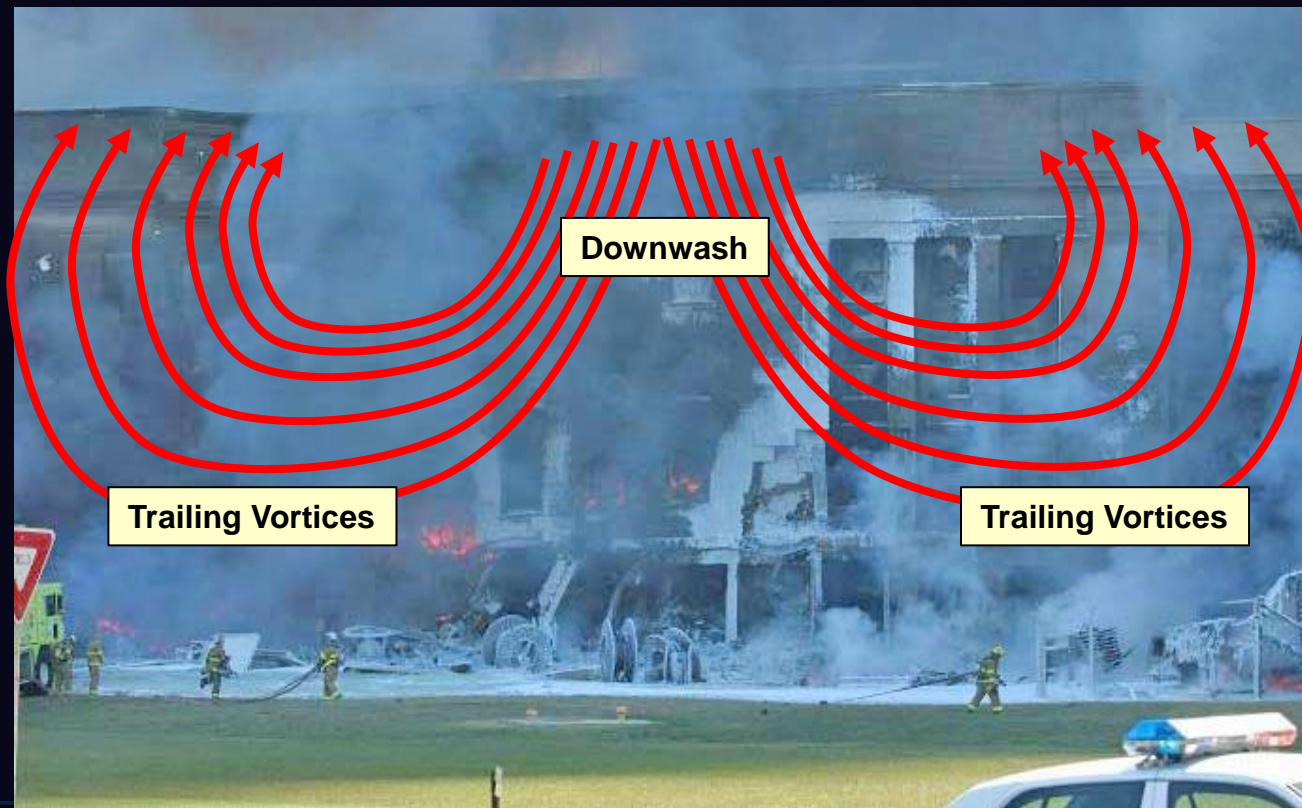


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# Flyover Above and Through Fireball Would Create Air Currents

Effect of downwash and vortices would be to push fireball down in center and push fireball to both sides - No such air currents observed



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