

Earth's atmospheric circulation

<https://www.youtube.com/user/MartinRHendriks/videos>

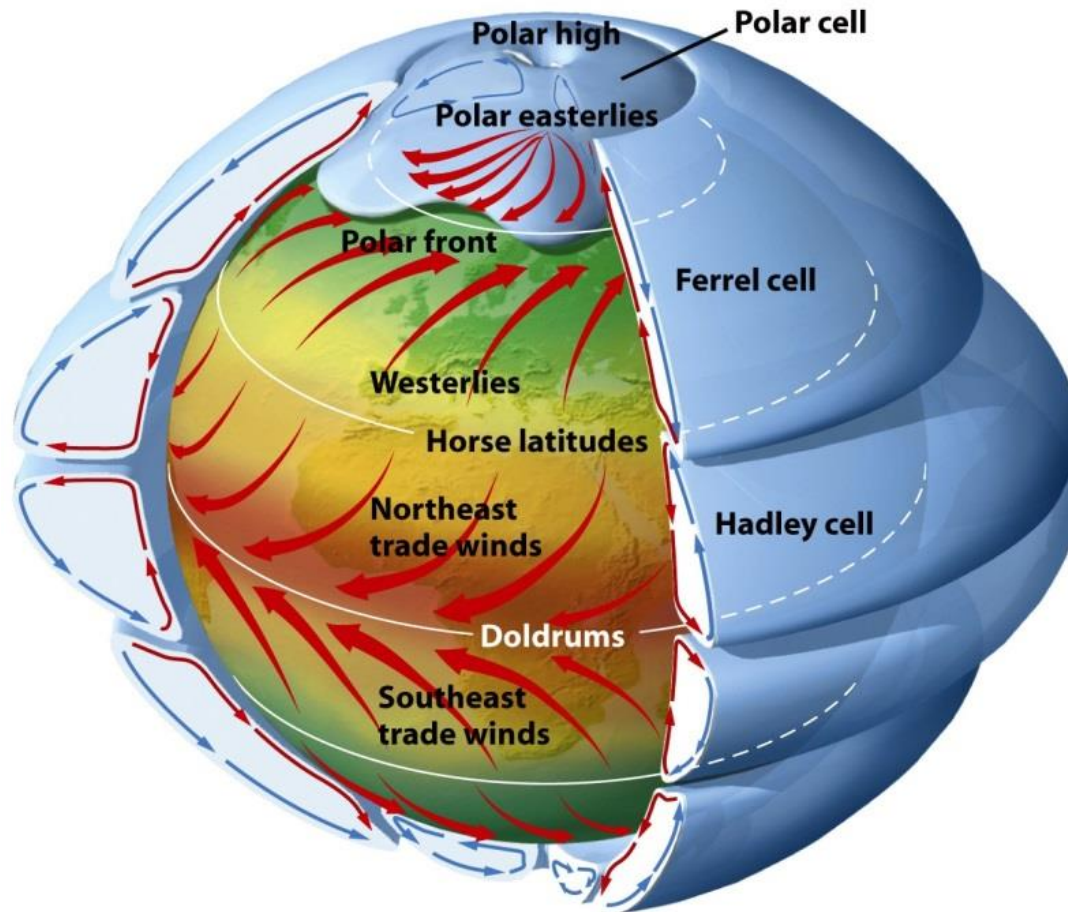
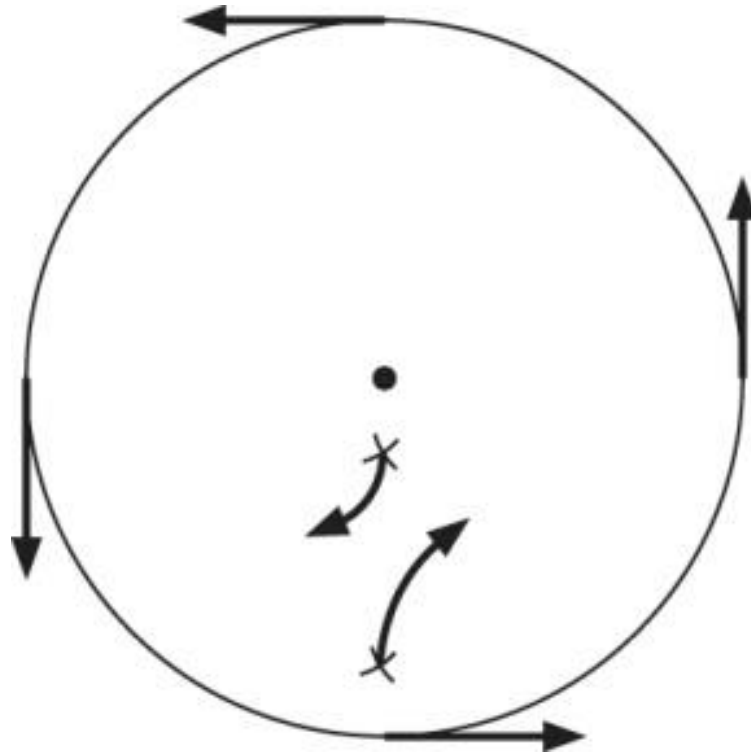


Figure 20-11c Earth: Portrait of a Planet 3/e
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Coriolis effect - Northern Hemisphere (N.H.)

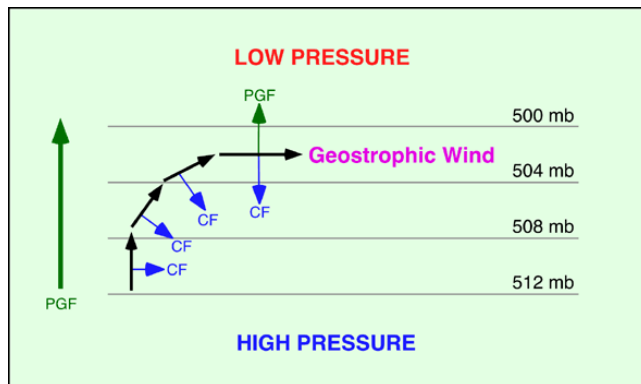
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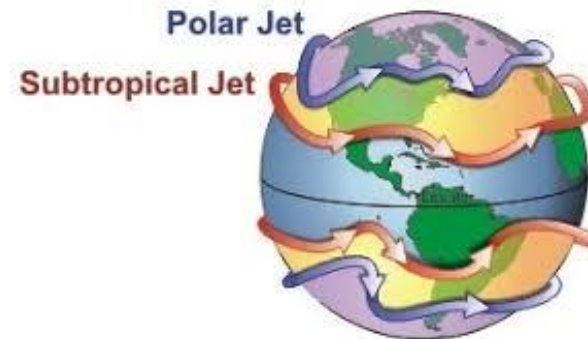
Geostrophic wind – Jet streams

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no friction $\Rightarrow$ geostrophic wind



Source: <https://www.assignmentpoint.com/science/physics/geostrophic-wind.html>



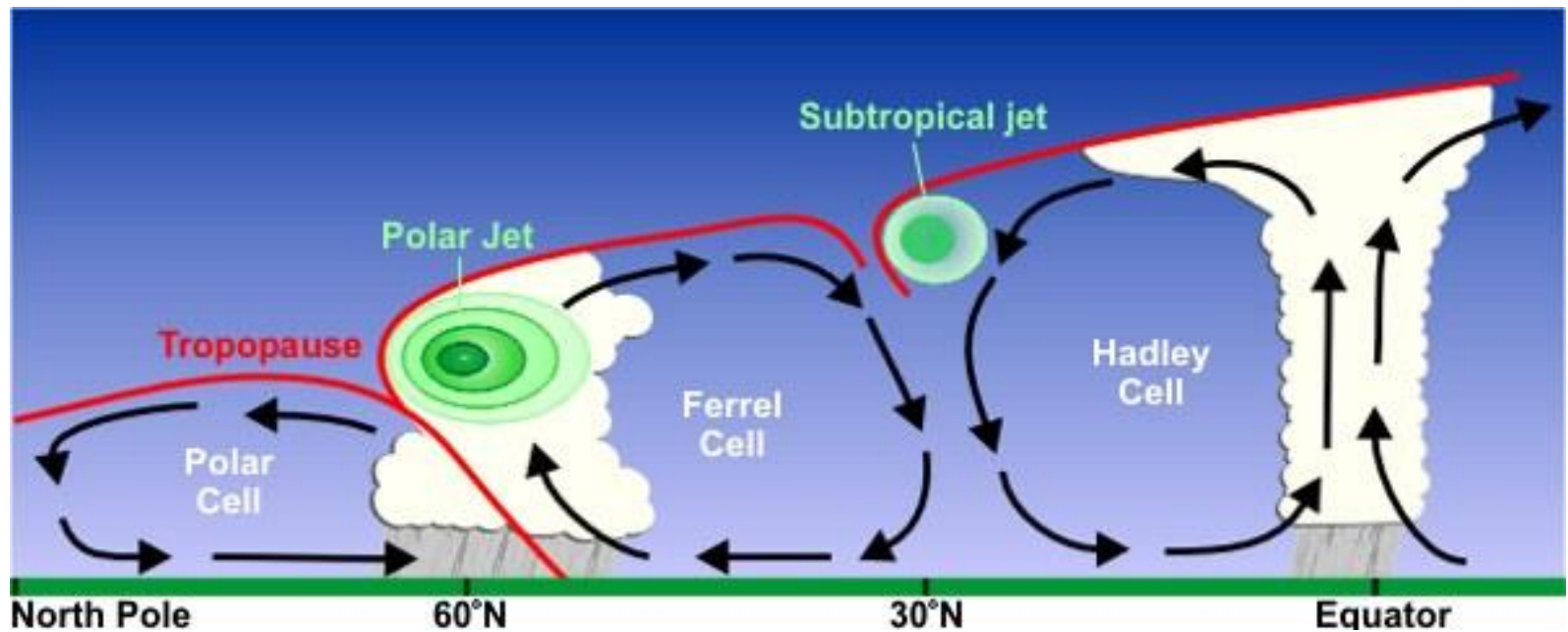
Source: Wikipedia

Jet streams: at an altitude of 8-15 km
6 km wide, meandering over a width of 200-800 km

Usually there are two in the N.H., and two in the S.H.

Atmospheric circulation - N.H.

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Source: Wikipedia

Atmospheric circulation

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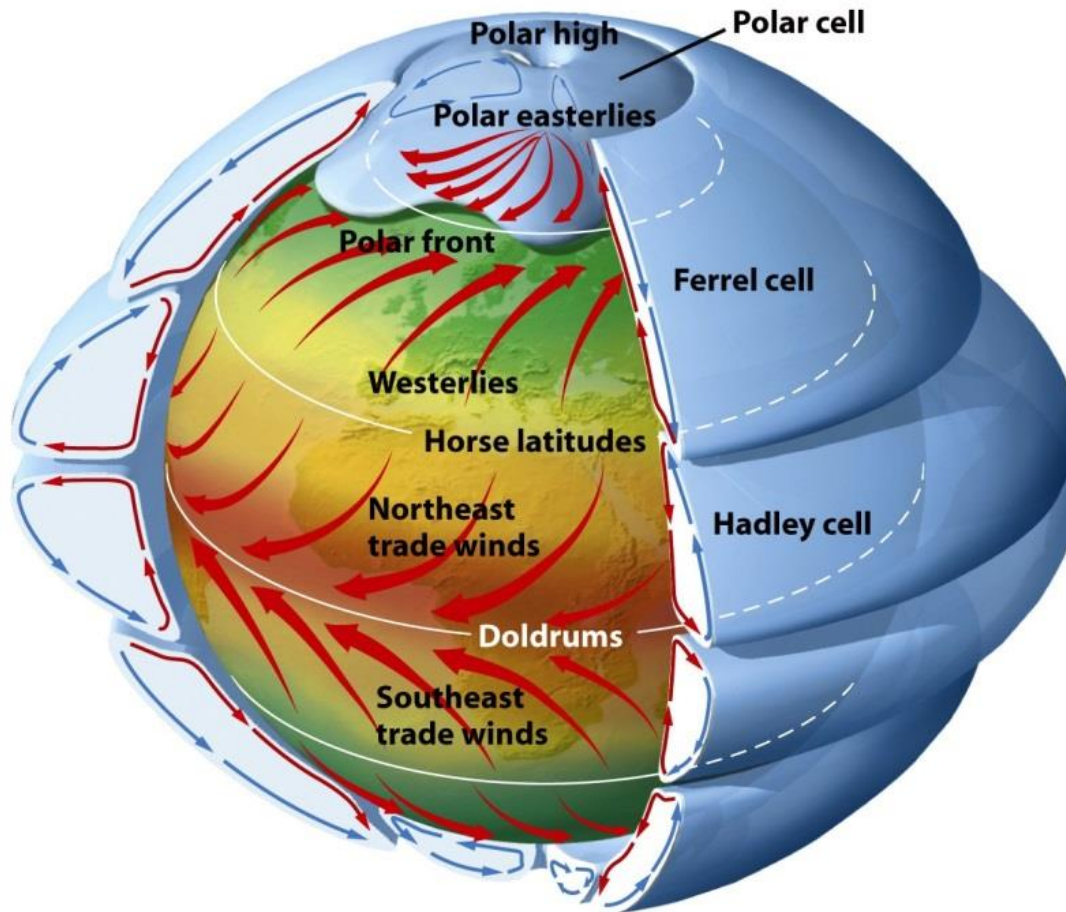


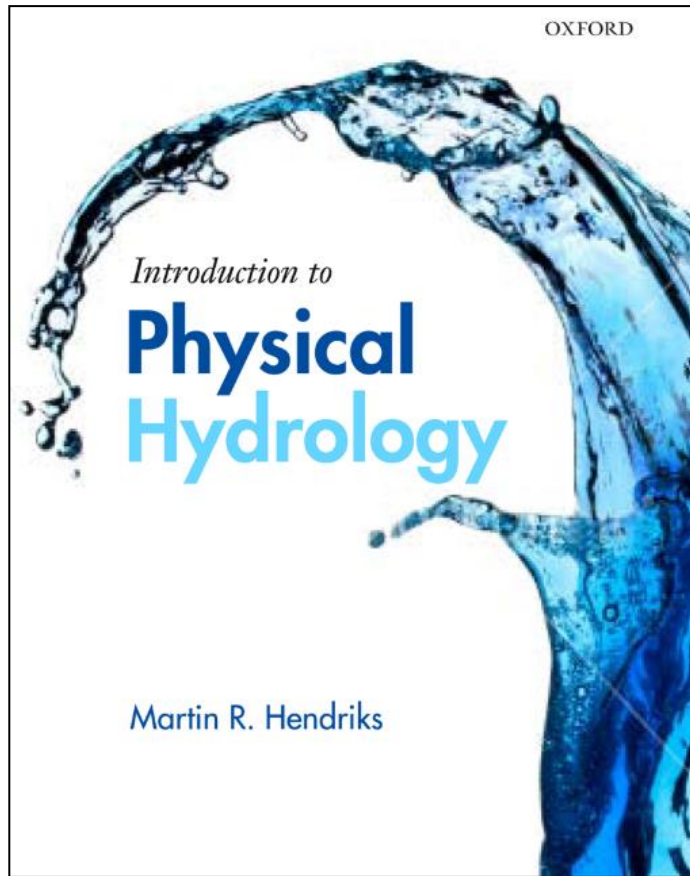
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Ocean conveyor belt circulation

Source: <https://climatesanity.wordpress.com/2009/06/04/the-thermohaline-circulation-only-stops-for-extreme-unrealistic-models/>



Textbook



Paperback | 351 pages | Follow the book's didactic concept!
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