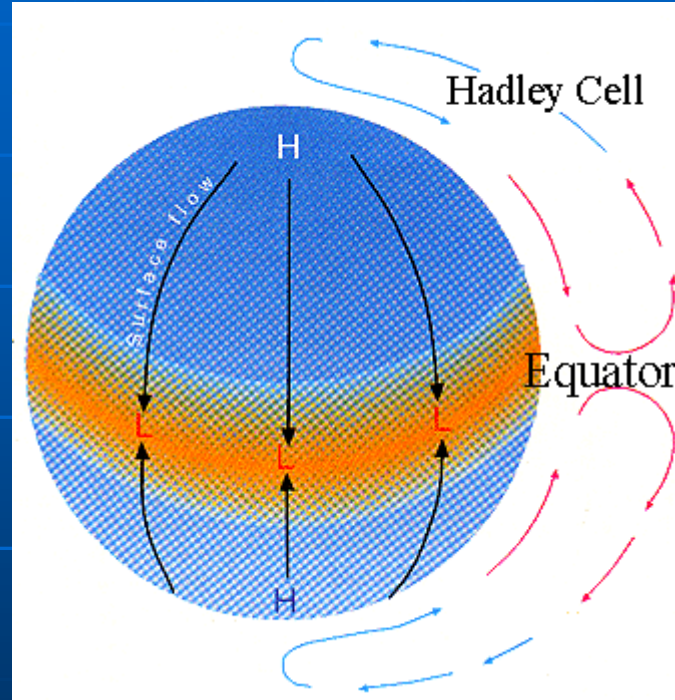
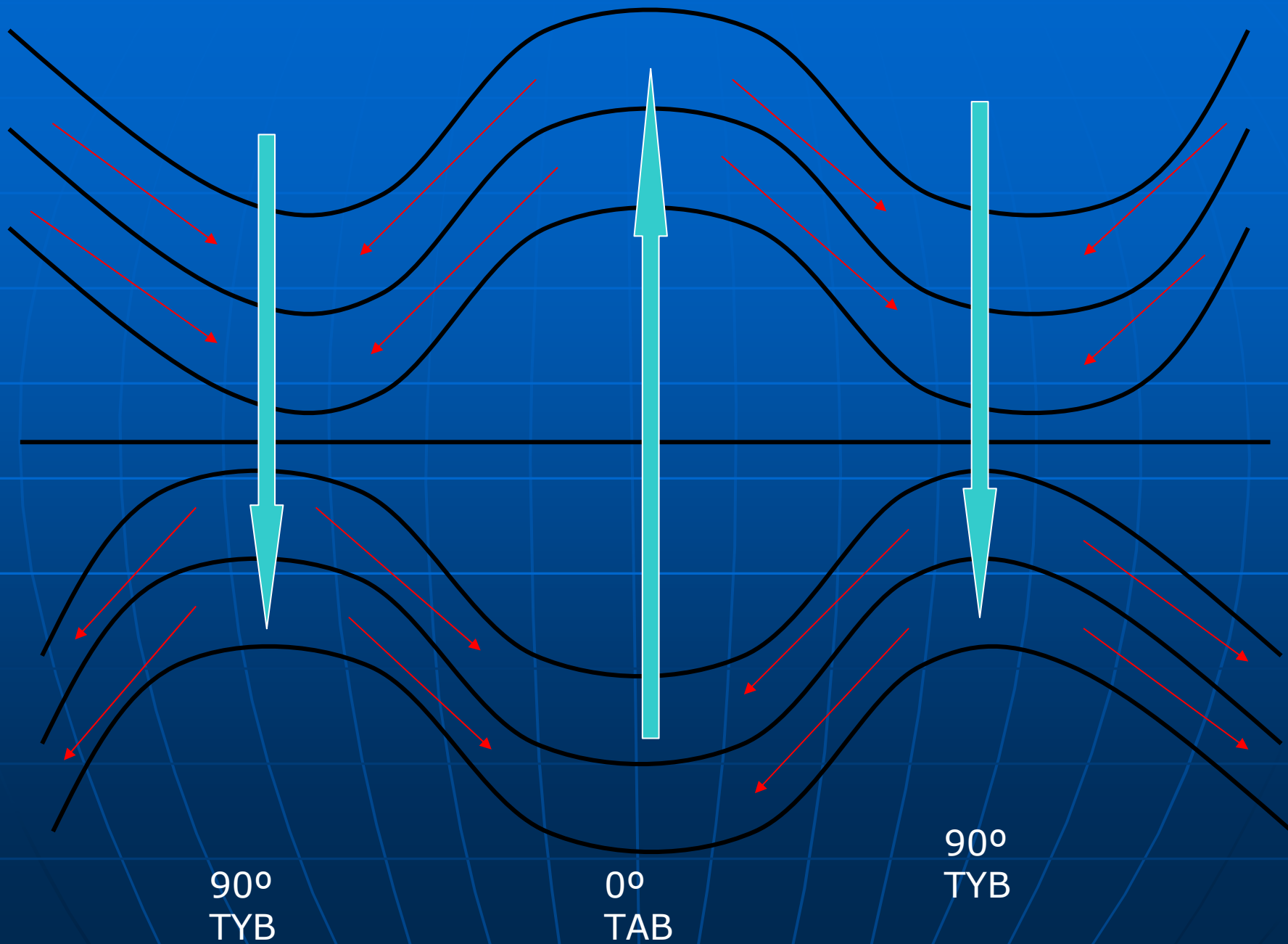
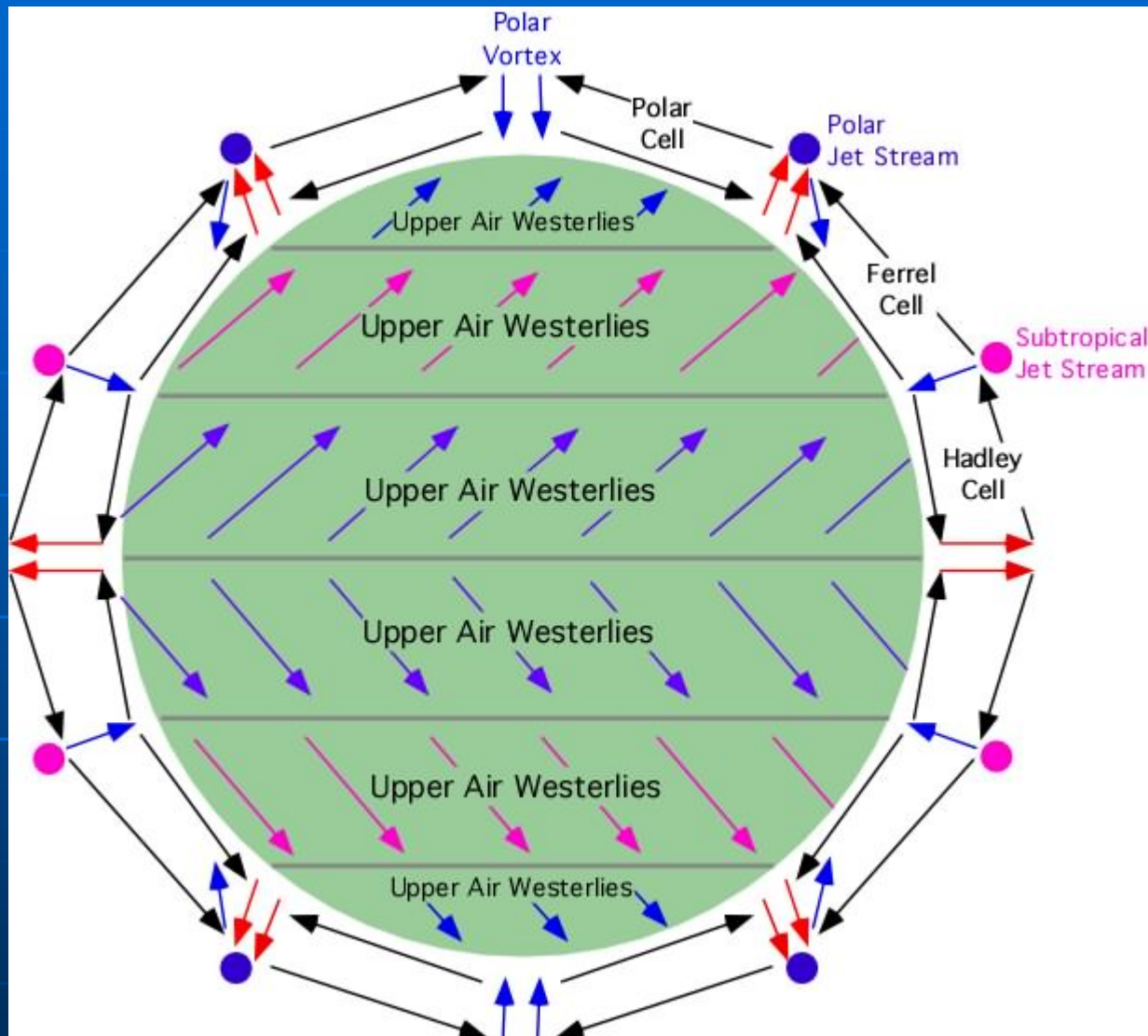
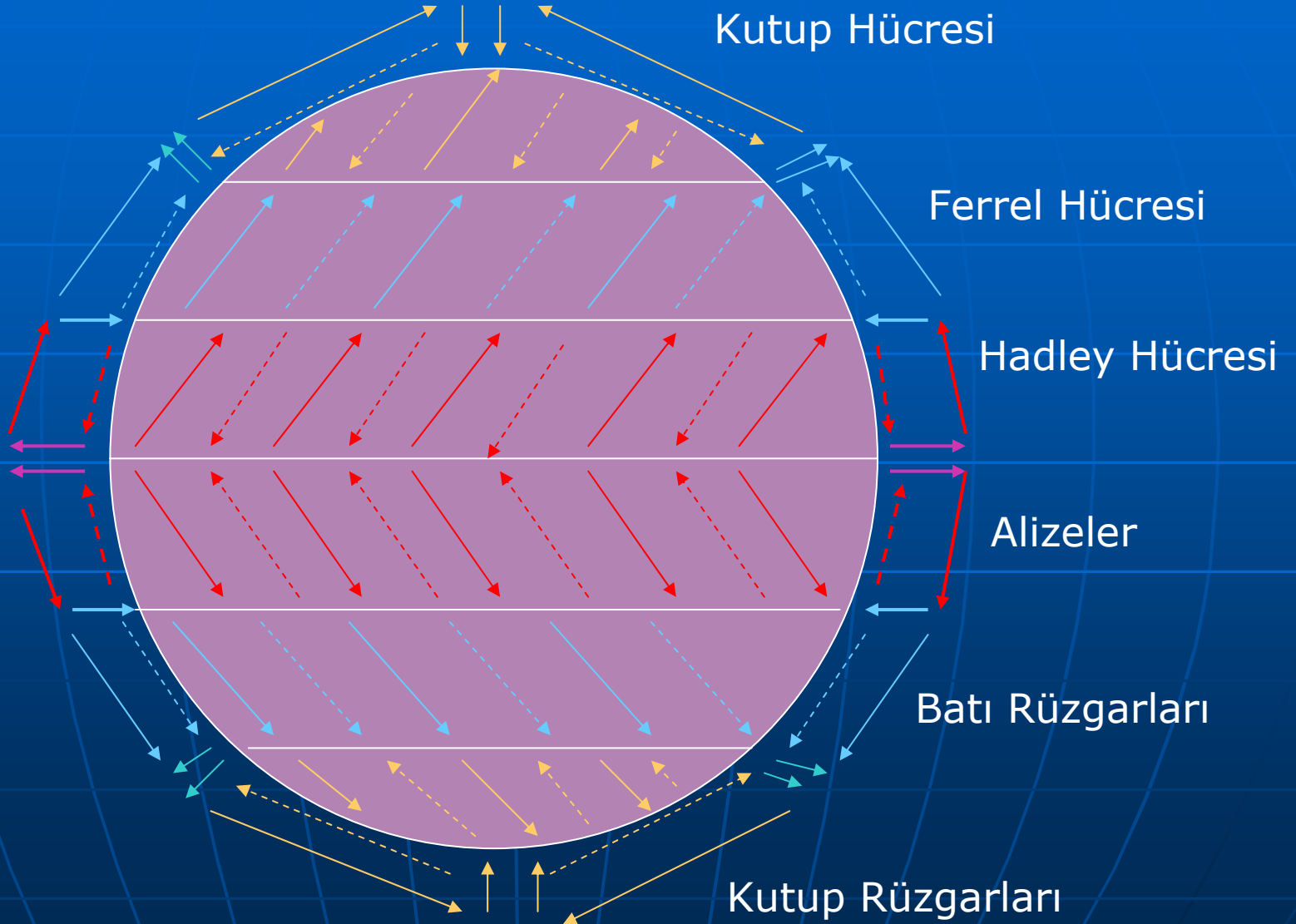


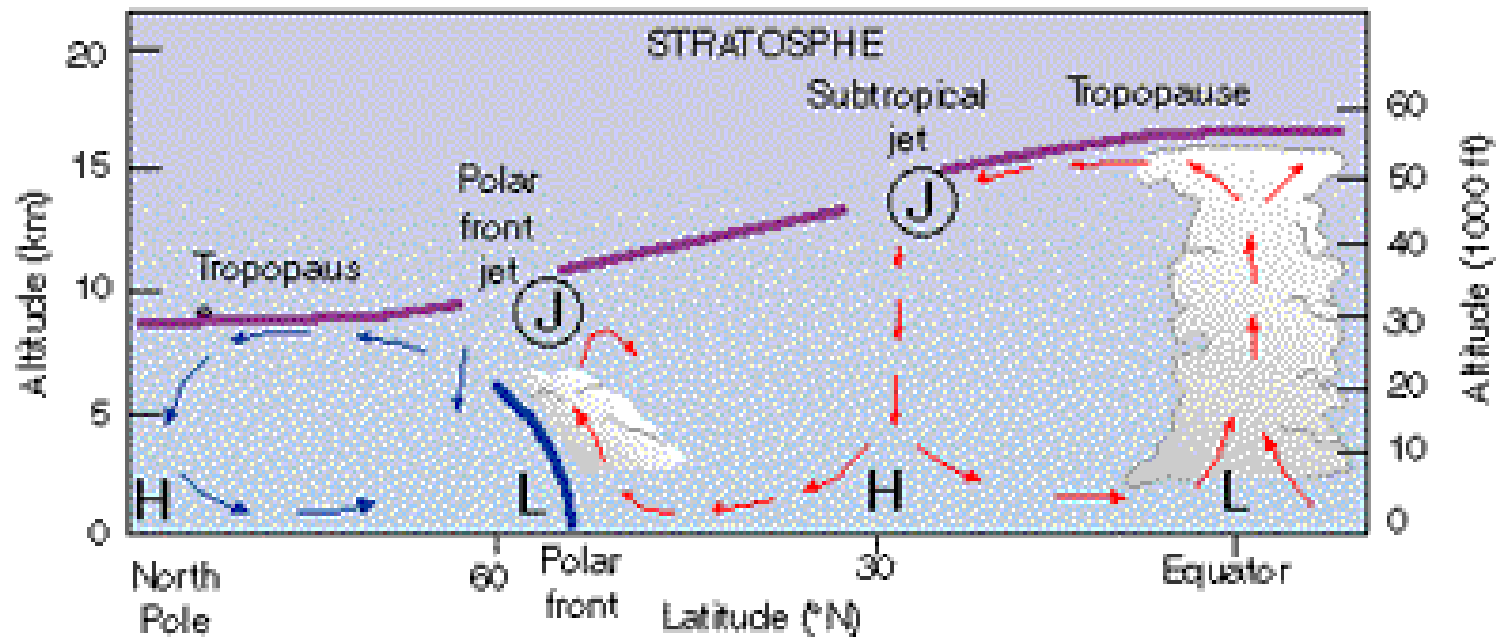
İlkel Görüş



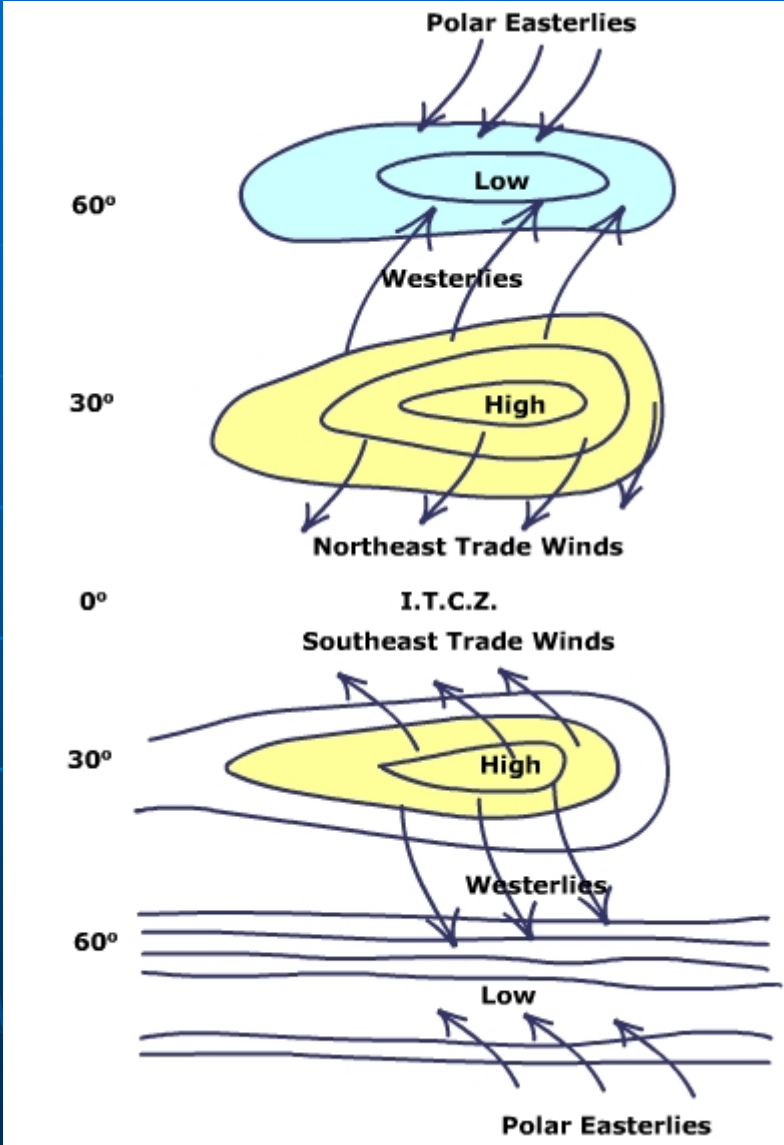


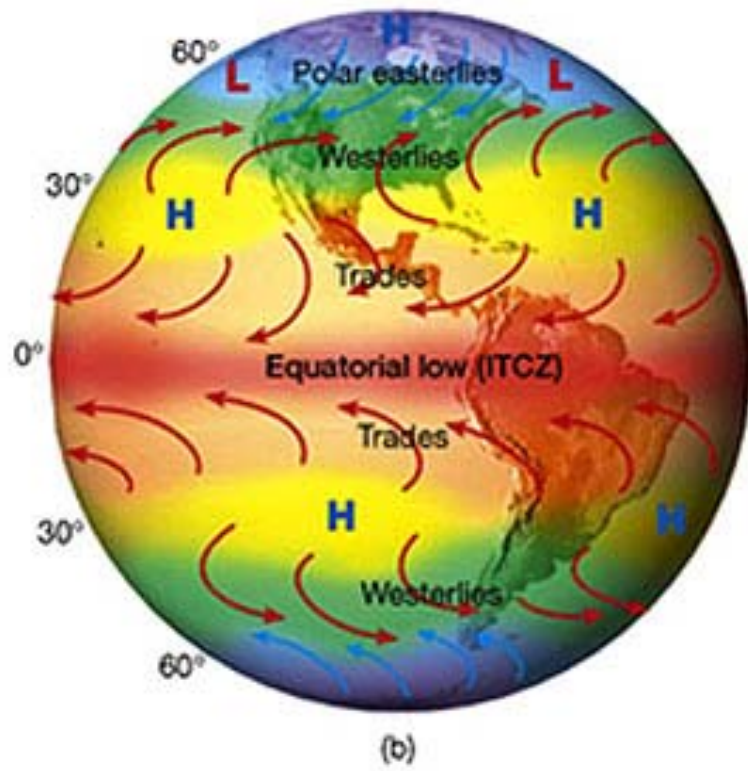
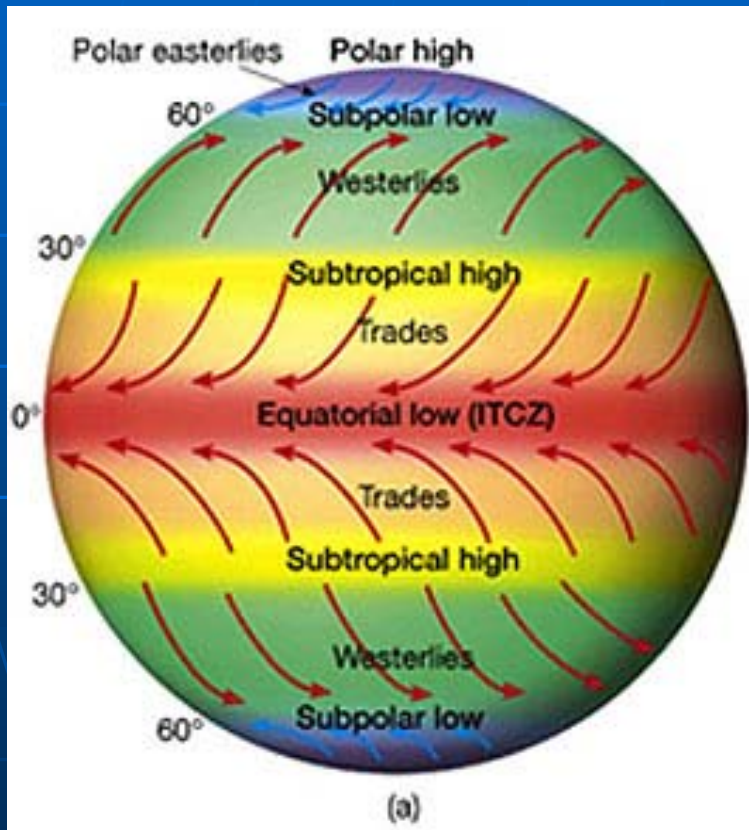


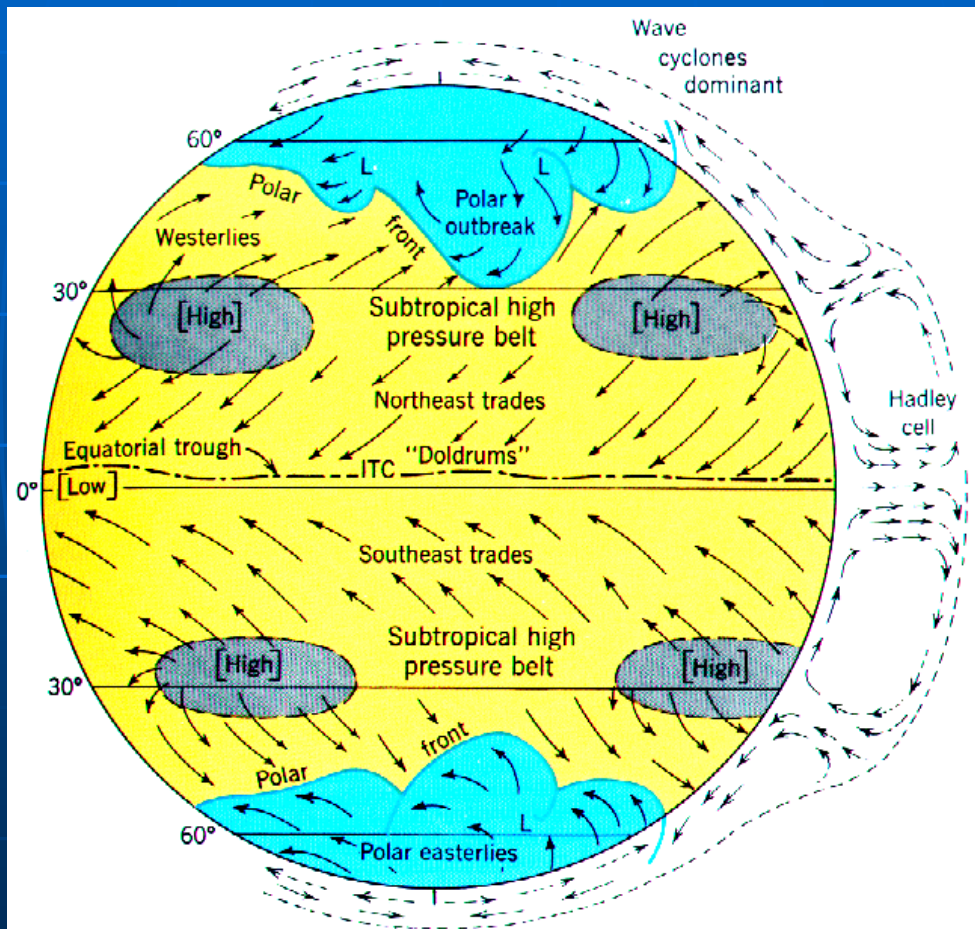




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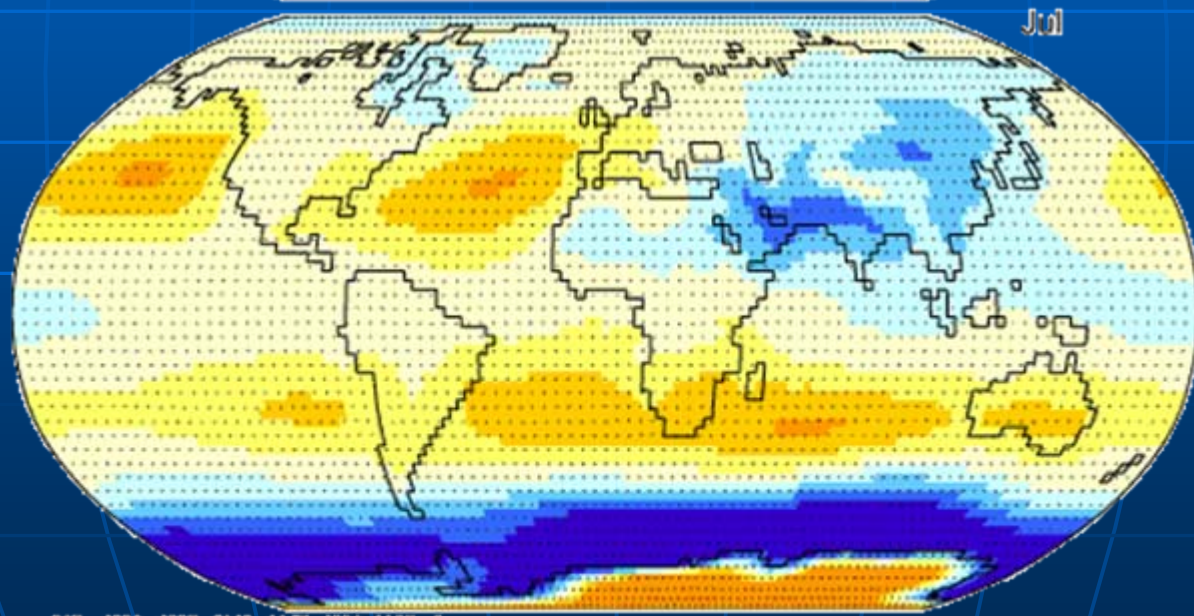
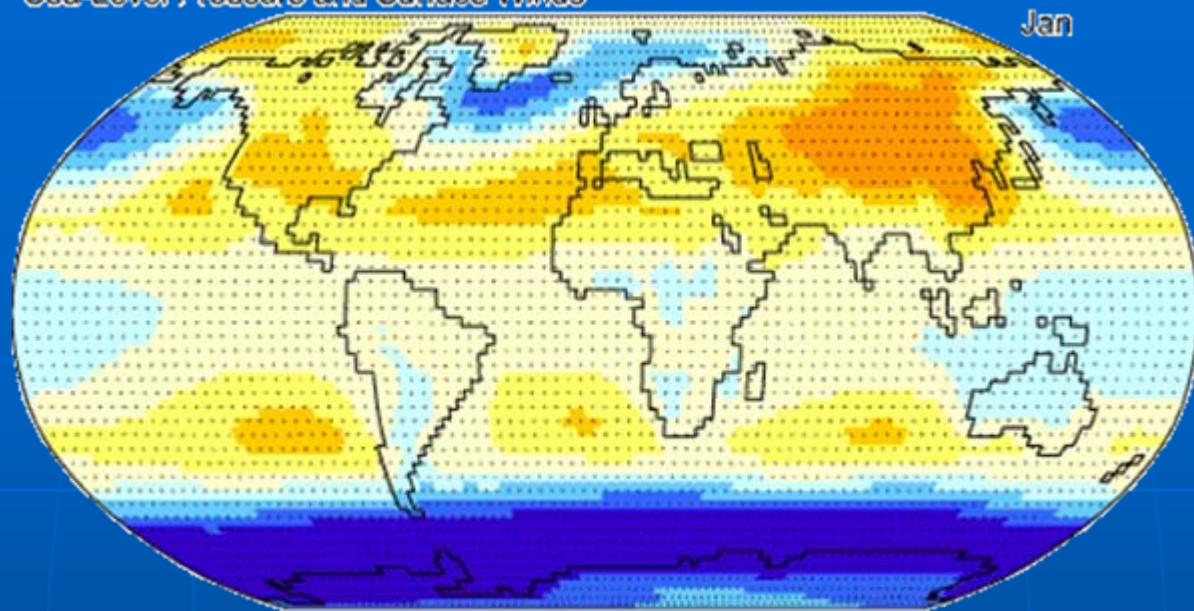






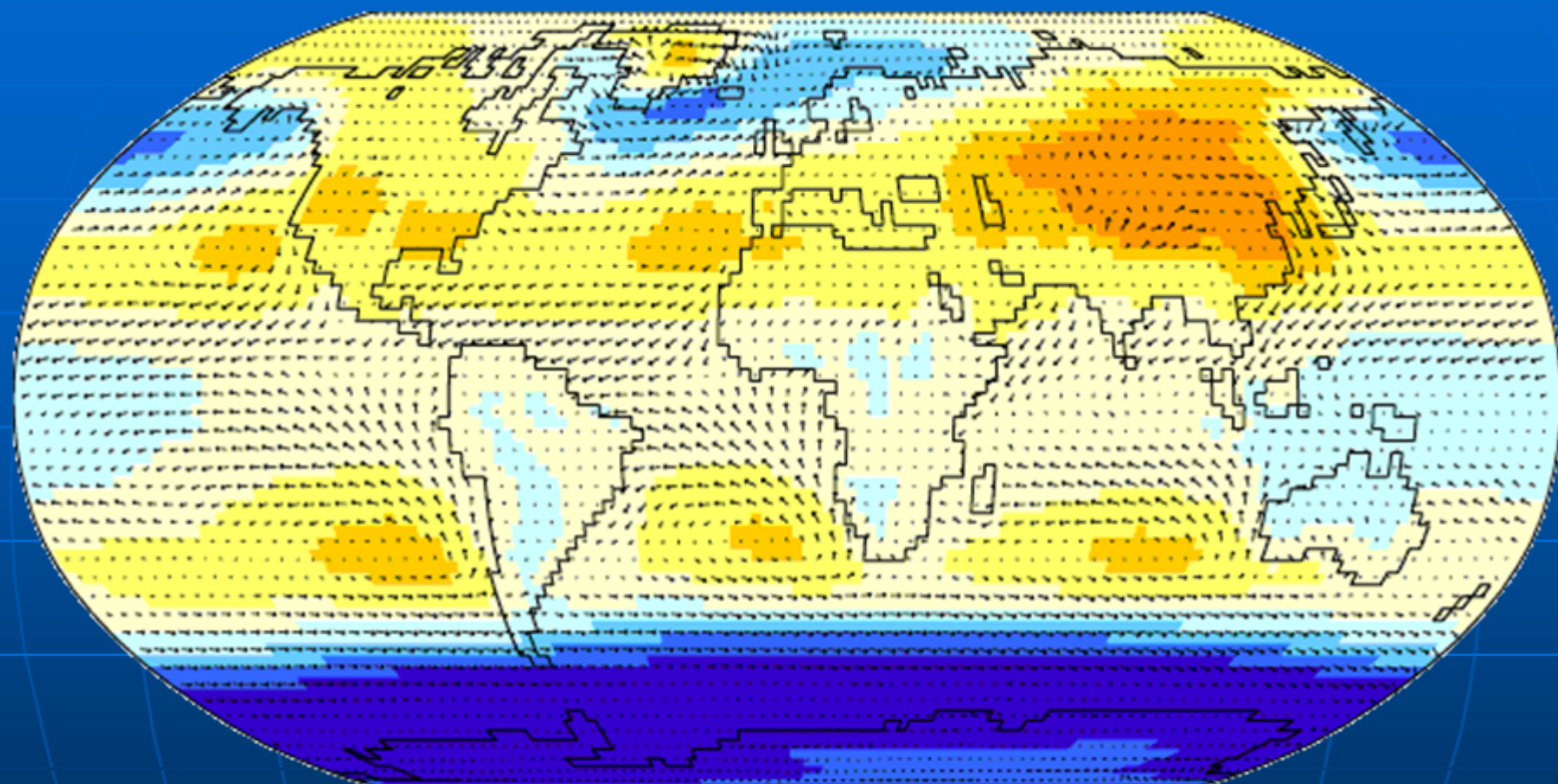
This schematic diagram of global surface winds disregards the disrupting effect of large continents in the northern hemisphere.

Sea-Level Pressure and Surface Winds

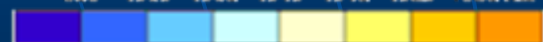


Sea-Level Pressure and Surface Winds

Dec



995 1000 1005 1010 1015 1020 1025 mb

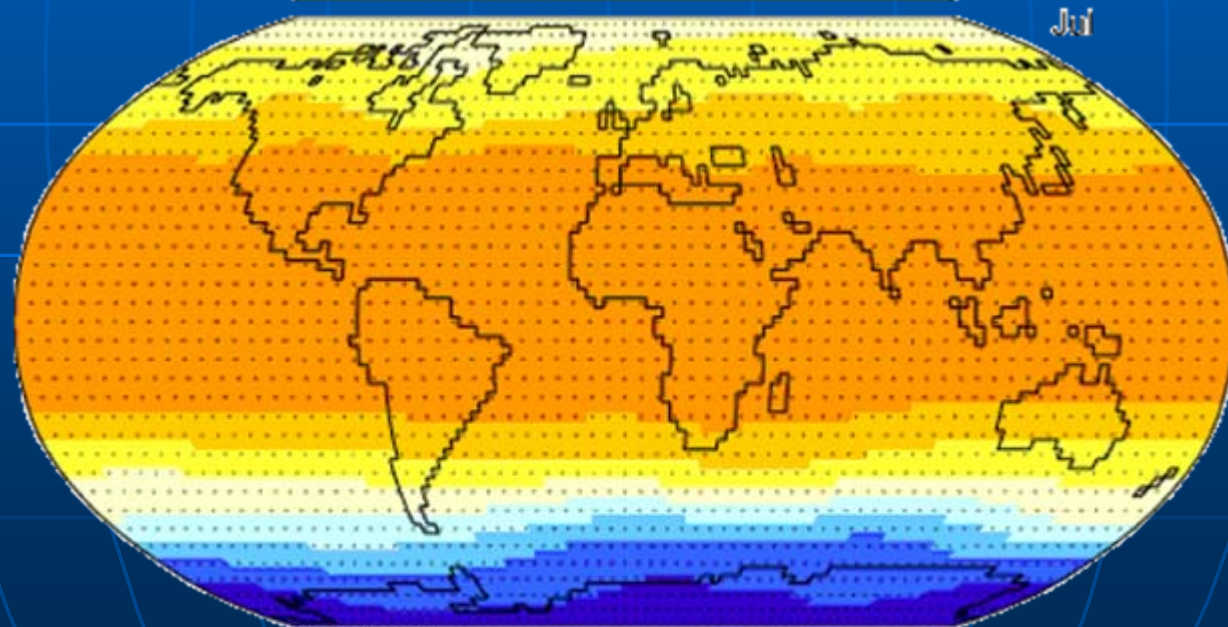
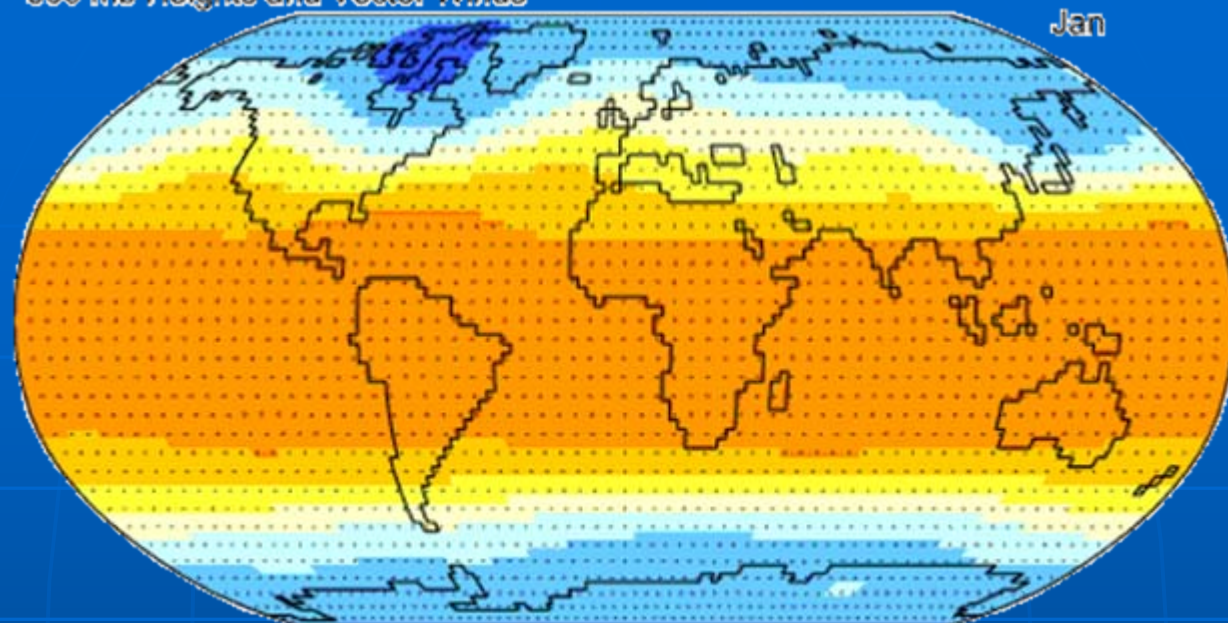


1 2 4 8 16 32 m/sec

Data: NCEP/NCAR Reanalysis Project, 1950-1997 Climate

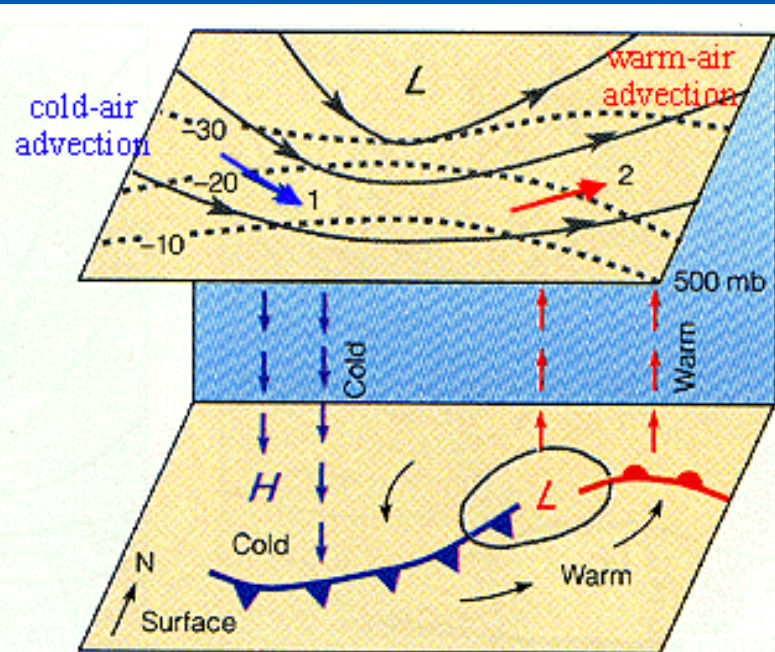
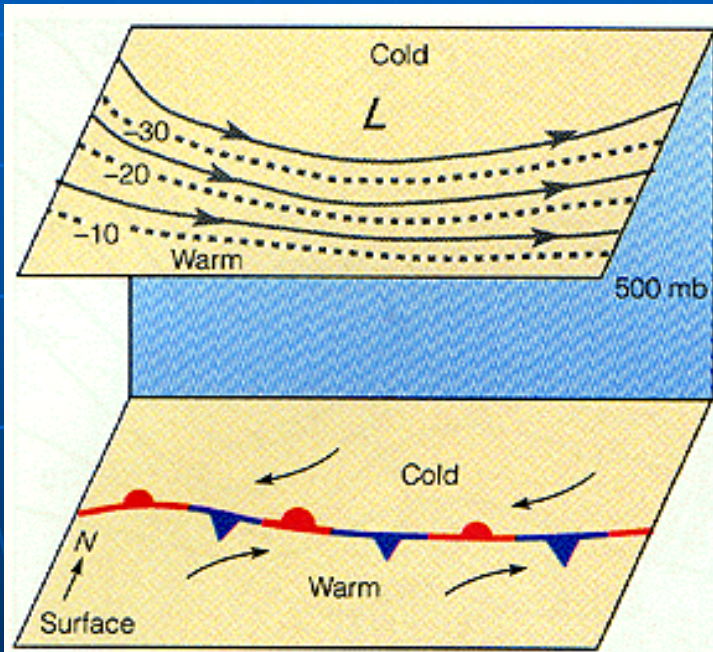
Attribution: Department of Geography, University of Oregon, March 2000

500 mb Heights and Vector Winds



Modern Görüş

- Barotropik yapı: İzobarlar ile izotermilerin birbirlerine paralel olduğu atmosferik yapılardır. Ekvator çevresi barotropik yapı gösterir.
- Baroklinik yapı: İzobarlar ile izotermilerin birbirini kestiği yapılardır. Bunun sonucunda soğuk ve sıcak adveksiyonlar oluşur. Orta enlemler baroklinik yapı gösterirler.



Soğuk adveksiyon

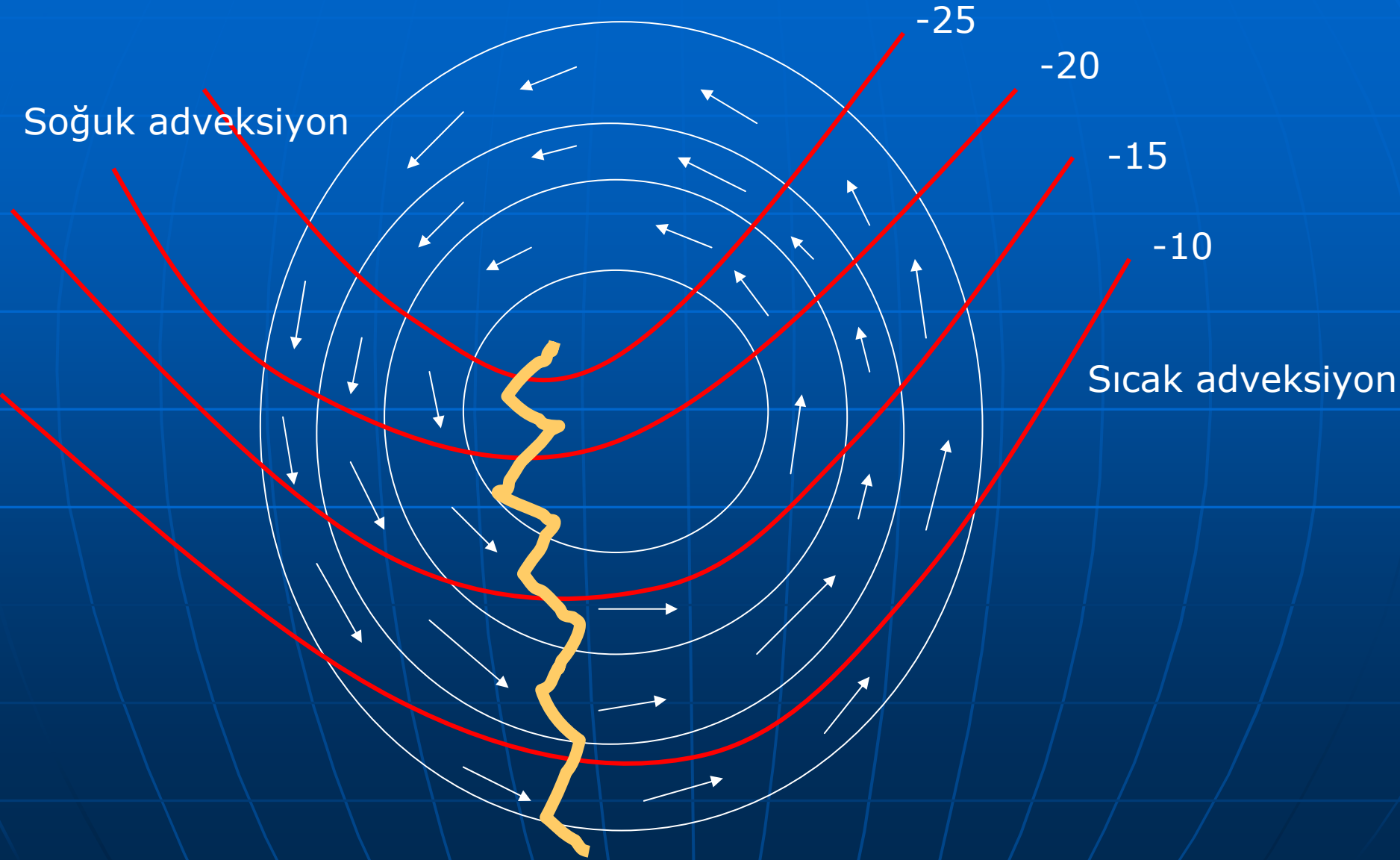
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-20

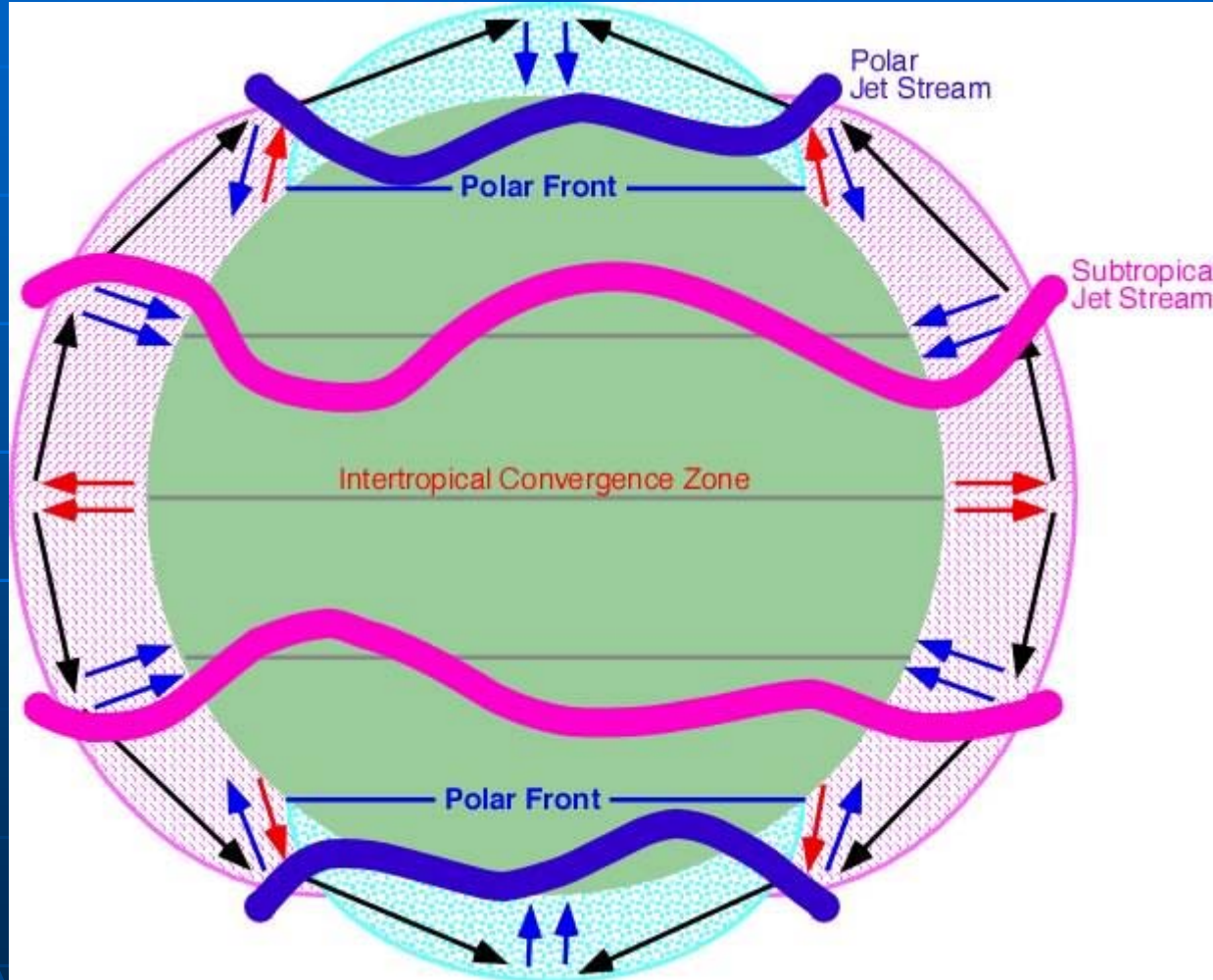
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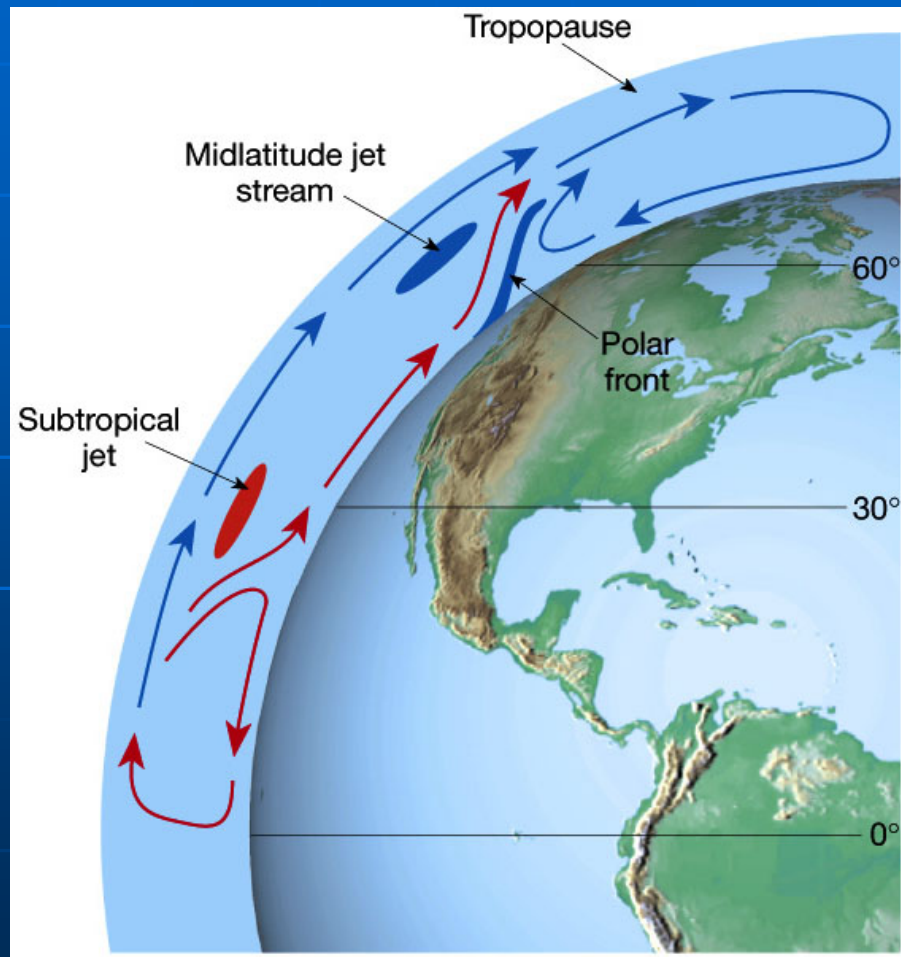
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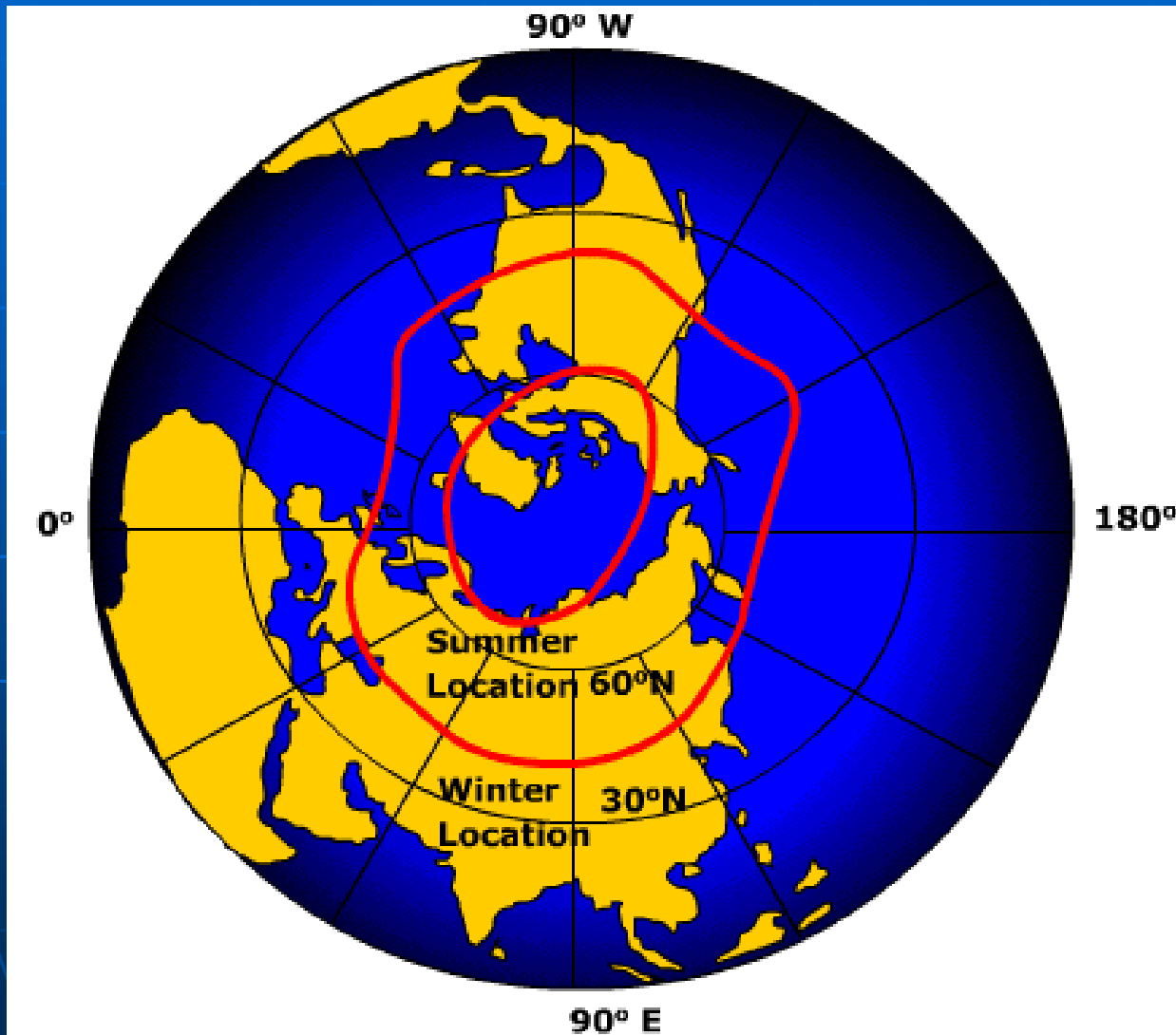
Sıcak adveksiyon



Jet rüzgarları ve polar cephe



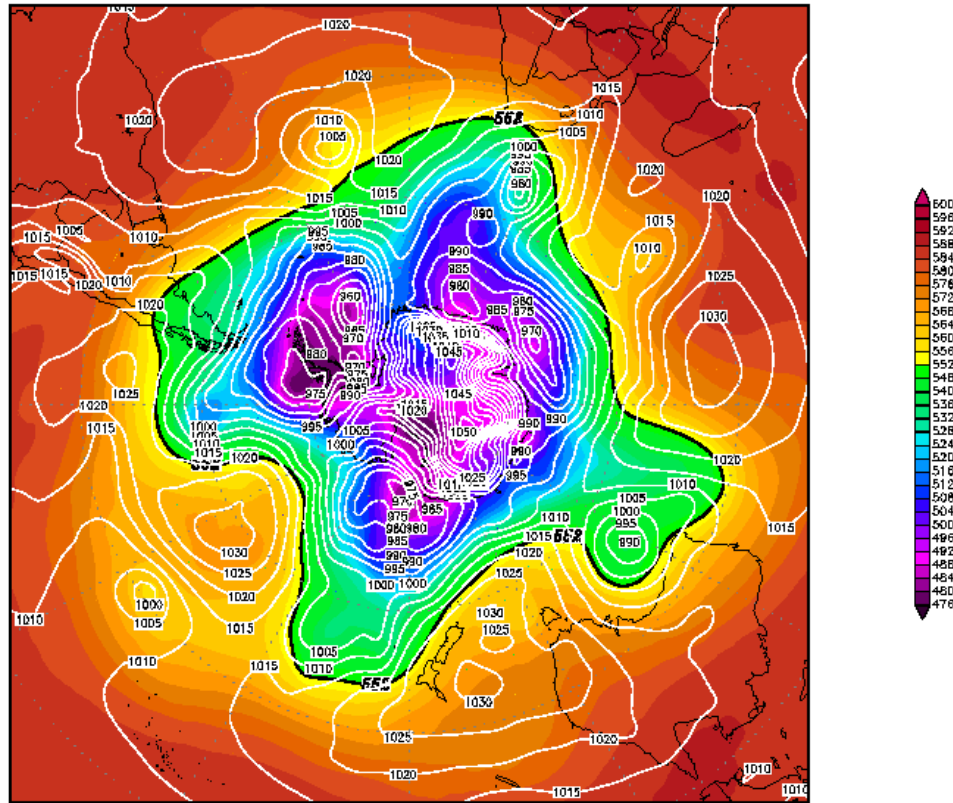




mit : Wed,08JUN2005 00Z

Valid: Wed,08JUN2005 00Z

500 hPa Geopot. (gpdm) und Bodendruck (hPa)

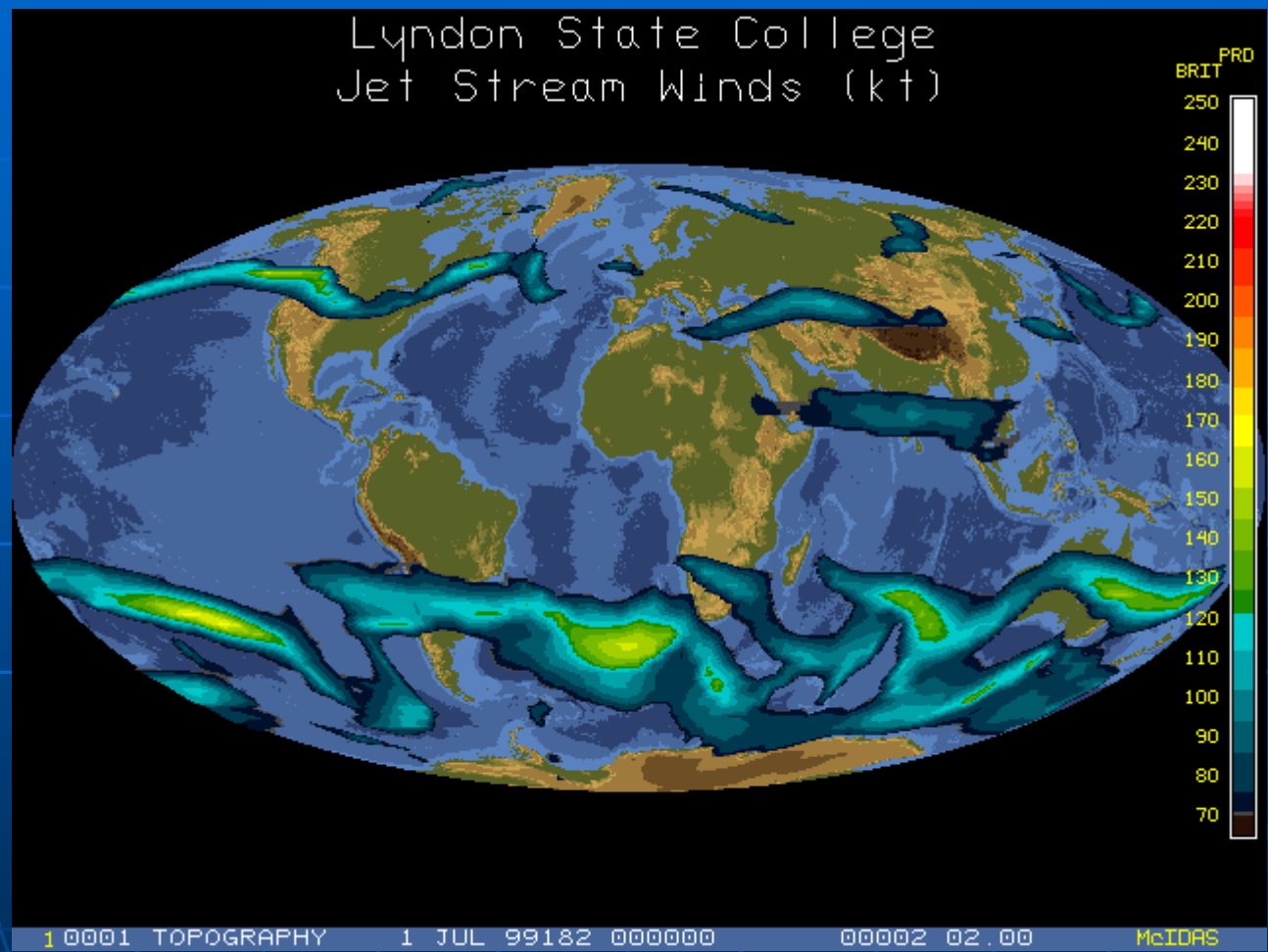


Daten: GFS-Modell des amerikanischen Wetterdienstes

(C) Wetterzentrale

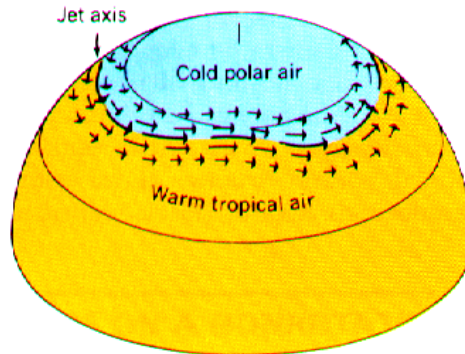
www.wetterzentrale.de

Lyndon State College Jet Stream Winds (kt)

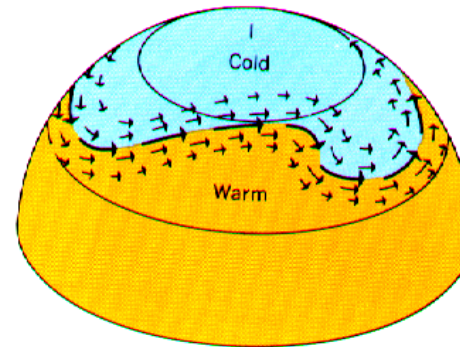


Rossby dalgası

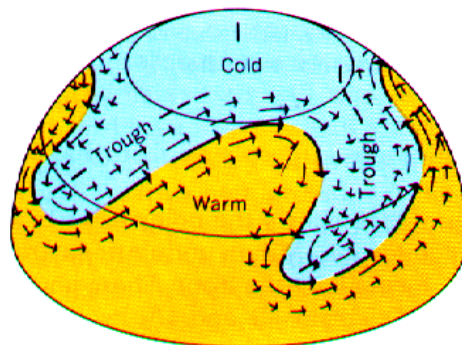
Rossby Waves and the Jet Stream



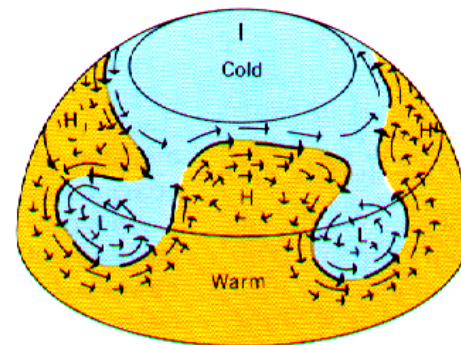
(A) The jet stream begins to undulate.



(B) Rossby waves begin to form.

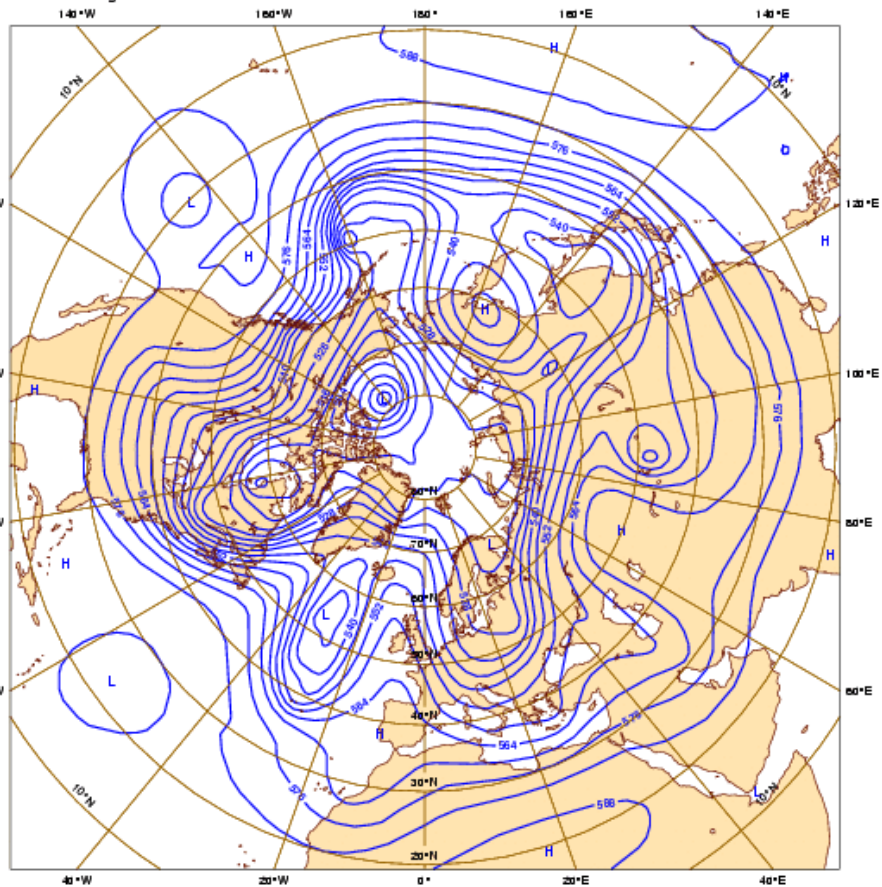


(C) Waves are strongly developed. The cold air occupies troughs of low pressure.

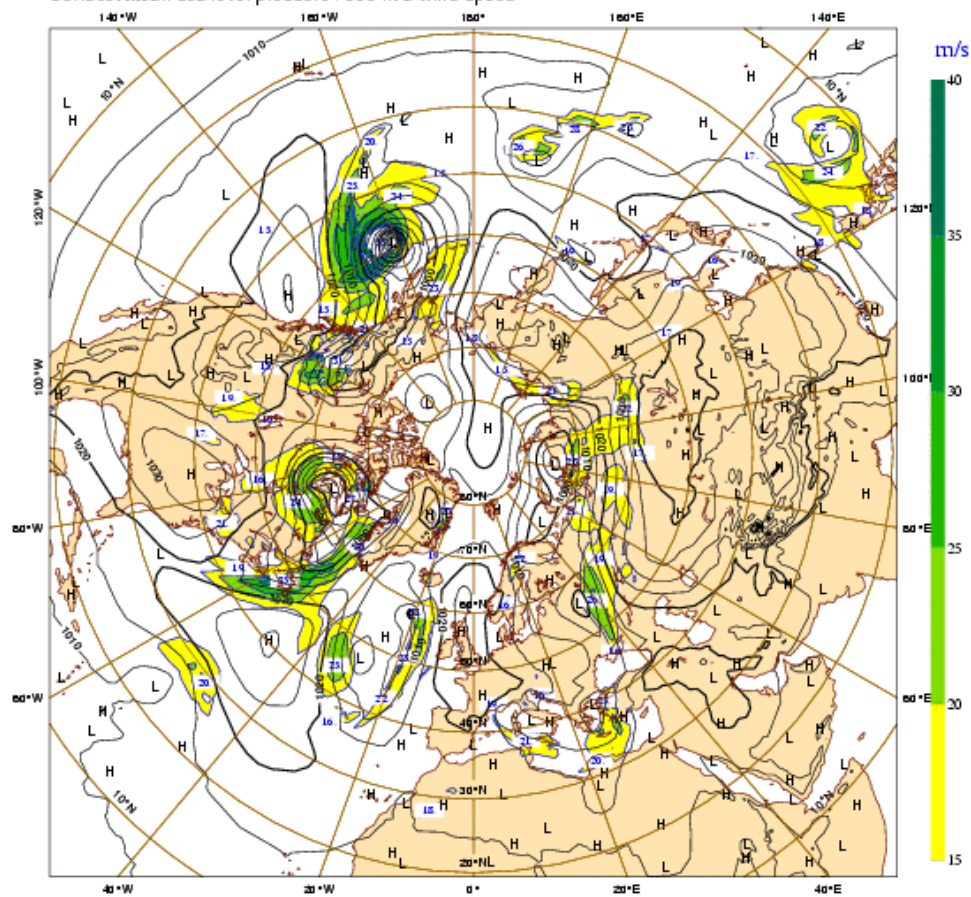


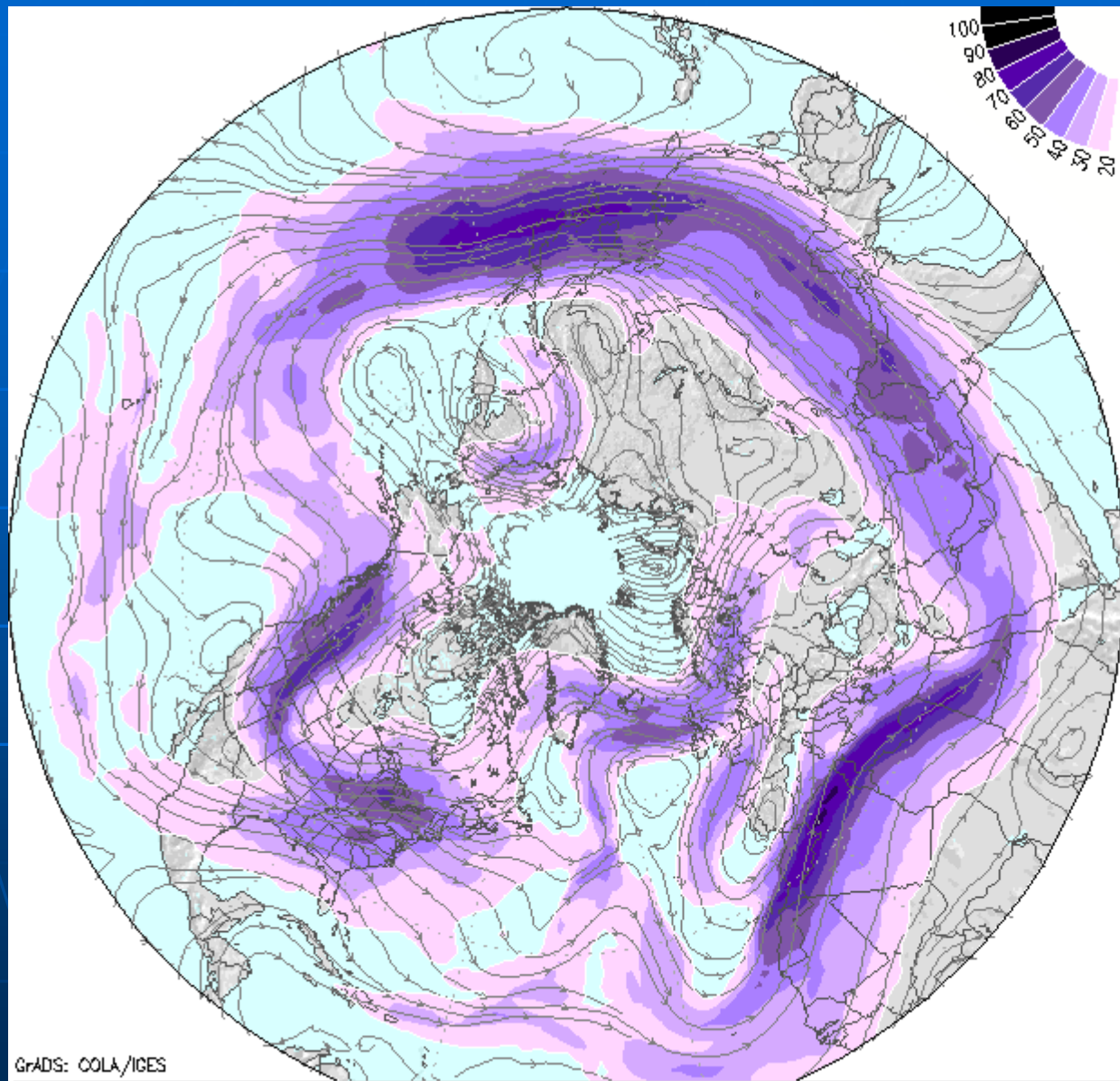
(D) When the waves are pinched off, they form cyclones of cold air.

Tuesday 15 November 2005 00UTC ©ECMWF Forecast t+072 VT: Friday 18 November 2005 00UTC
500 h Pa Height



Tuesday 15 November 2005 00UTC ©ECMWF Forecast t+072 VT: Friday 18 November 2005 00UTC
Surface: Mean sea level pressure / 850-hPa wind speed

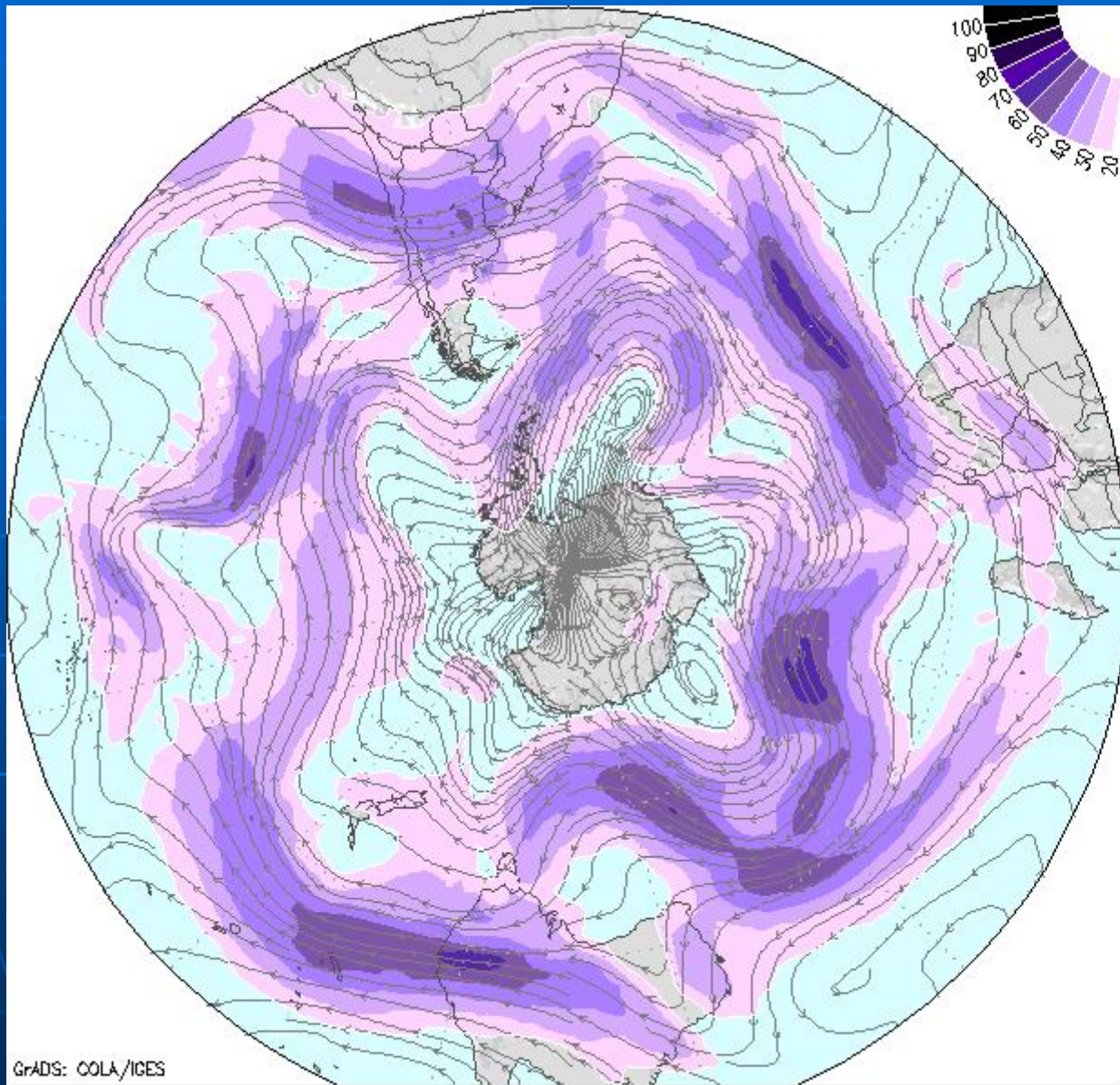




GrADS: COLA/ICES

GFS Analysis: 00Z Tue 15 NOV 2005

200mb Streamlines and Isotachs (m/s)



GrADS: COLA/ICES

GFS Analysis: 00Z Tue 15 NOV 2005

200mb Streamlines and Isotachs (m/s)

