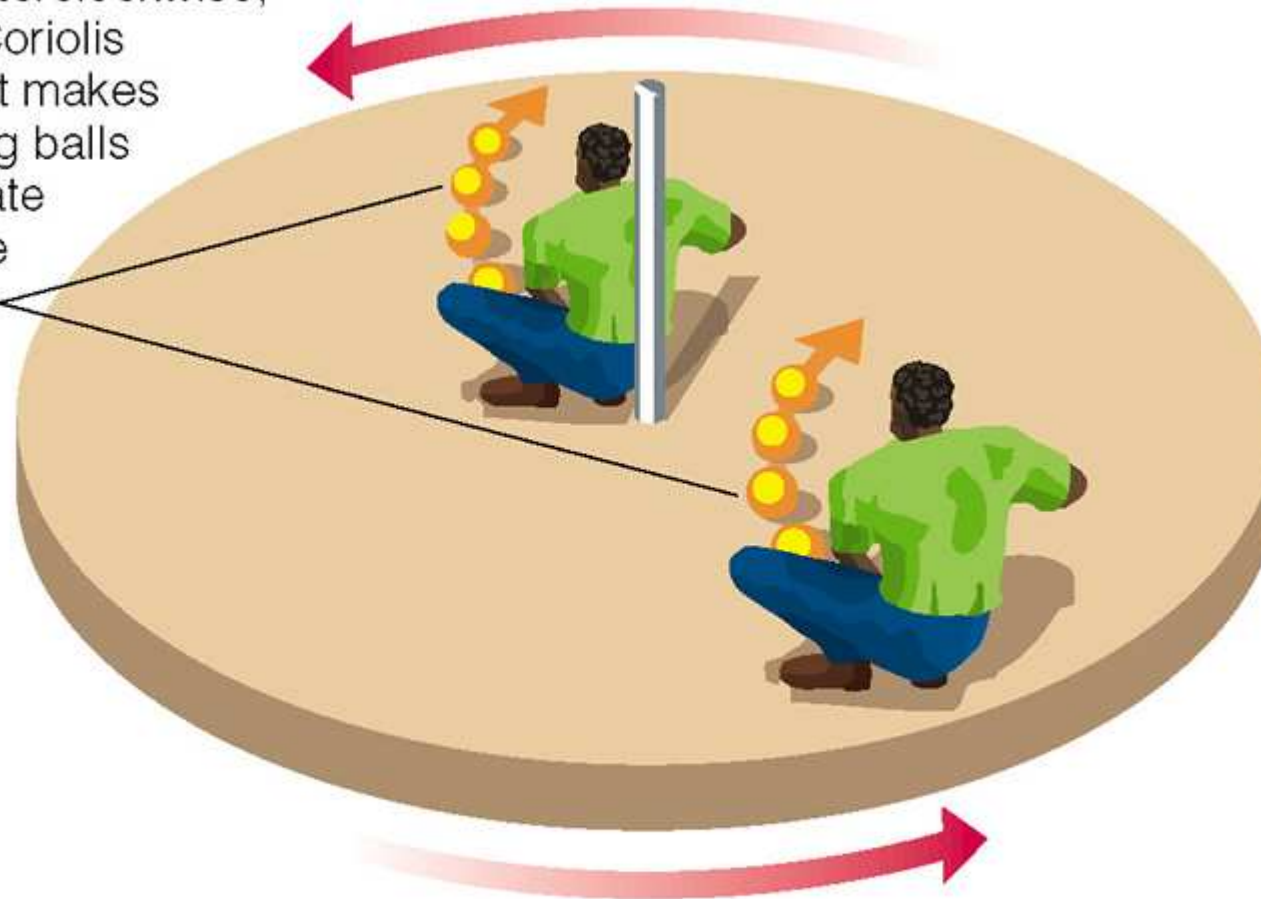




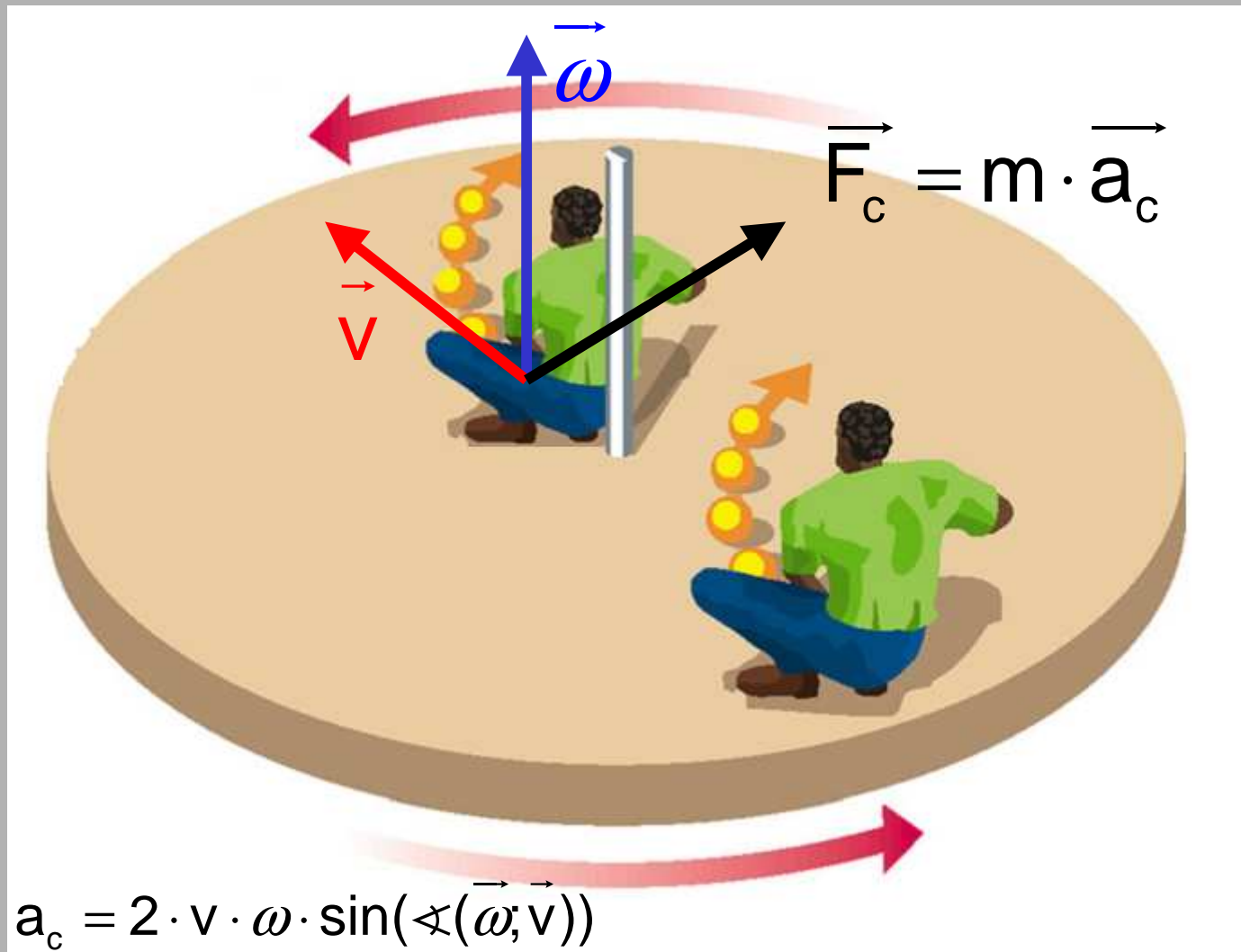
## Die Coriolis-Kraft

On a merry-go-round spinning counterclockwise, the Coriolis effect makes rolling balls deviate to the right.



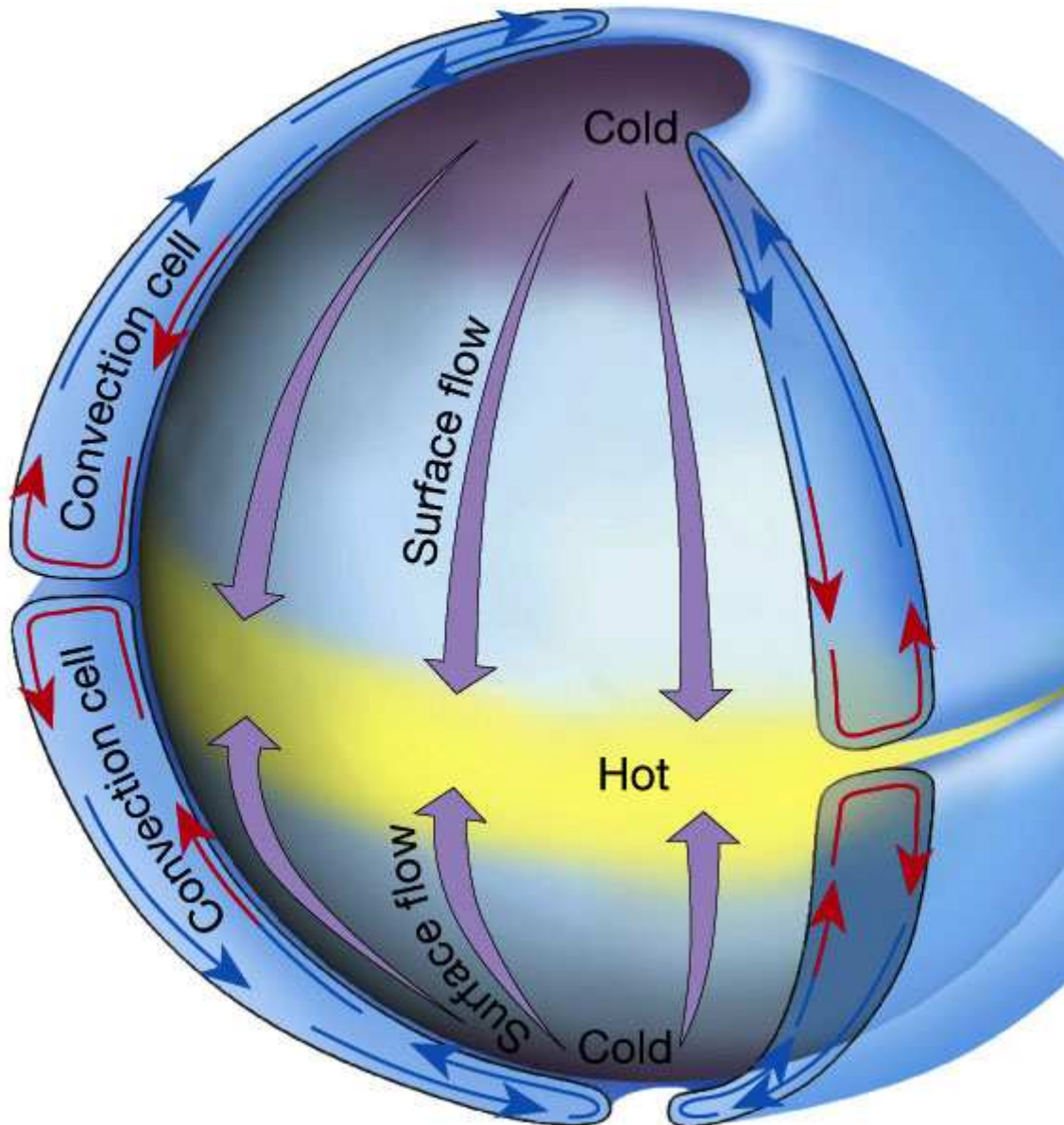


## Die Coriolis-Kraft





## Windsysteme auf einer nicht rotierenden Erde



### Single-Cell Model of Circulation:

**If you assume:**

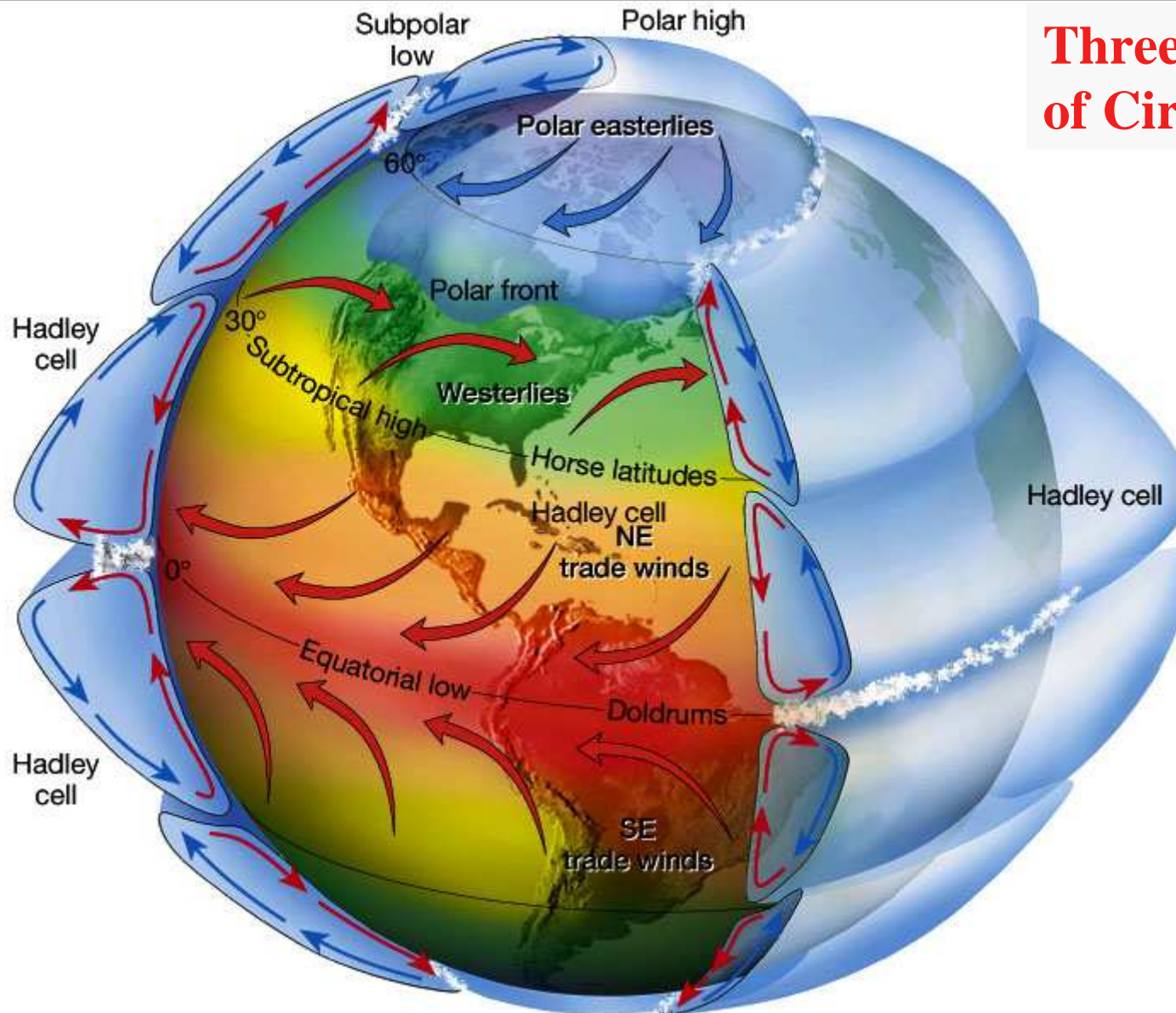
- earth is uniformly covered with water
- sun is directly over equator
- no rotation





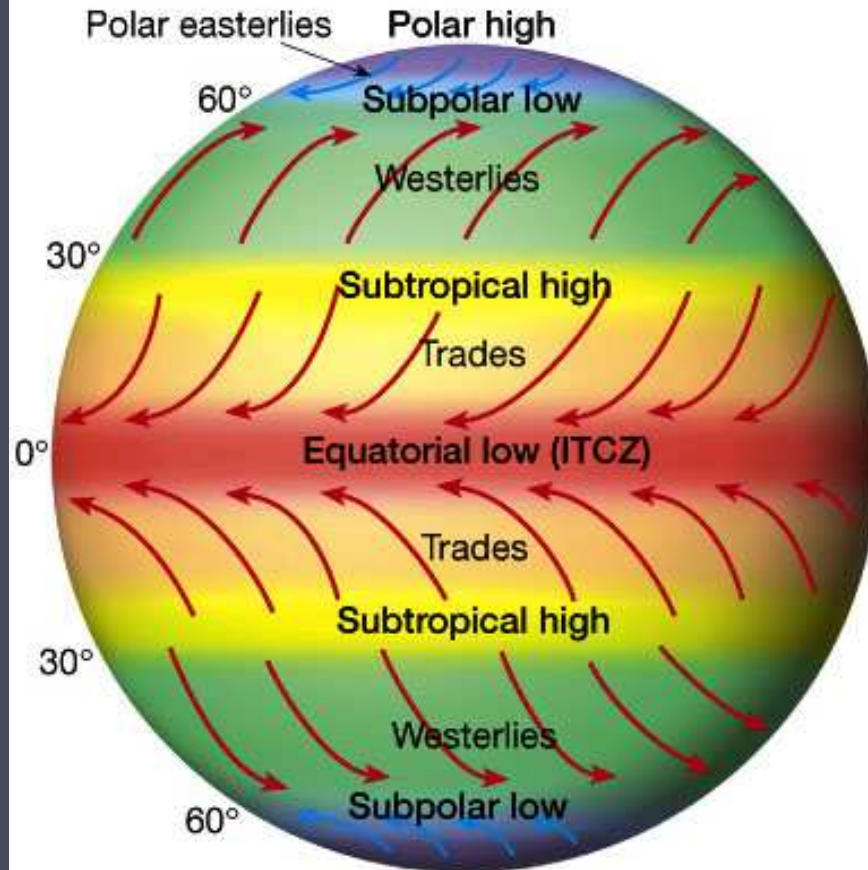
# Windsysteme der rotierenden Erde

## Three-Cell Model of Circulation

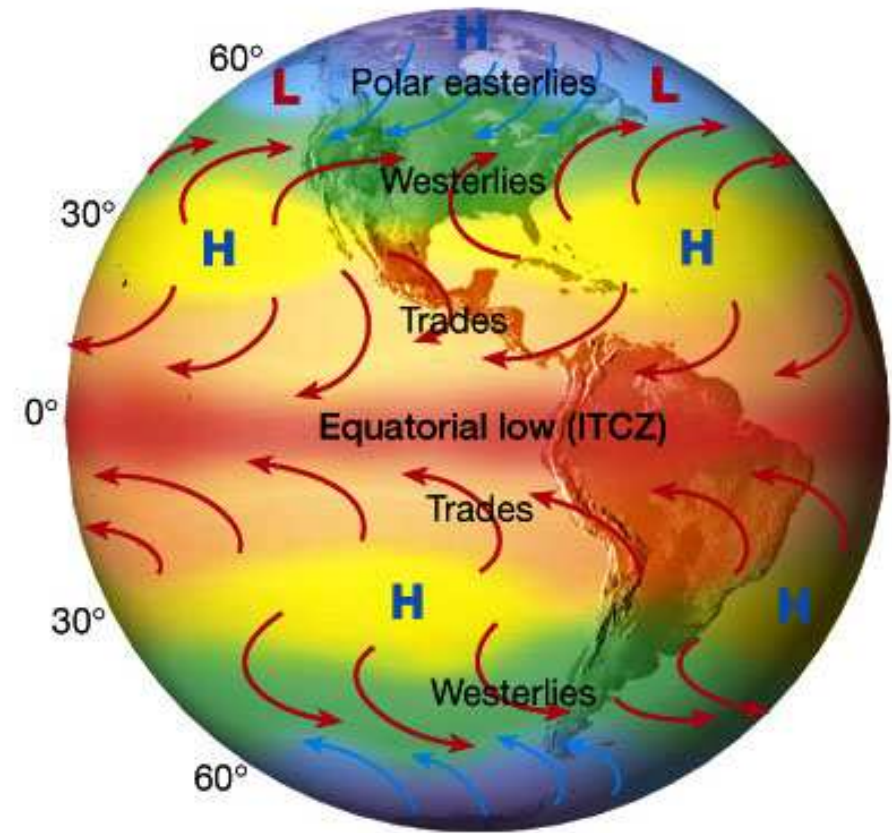




## Windsysteme der Erde



(a)



(b)

**ITCZ : intertropical convergence zone**

The name, trade winds, derives from the Old English "trade", meaning path or track.





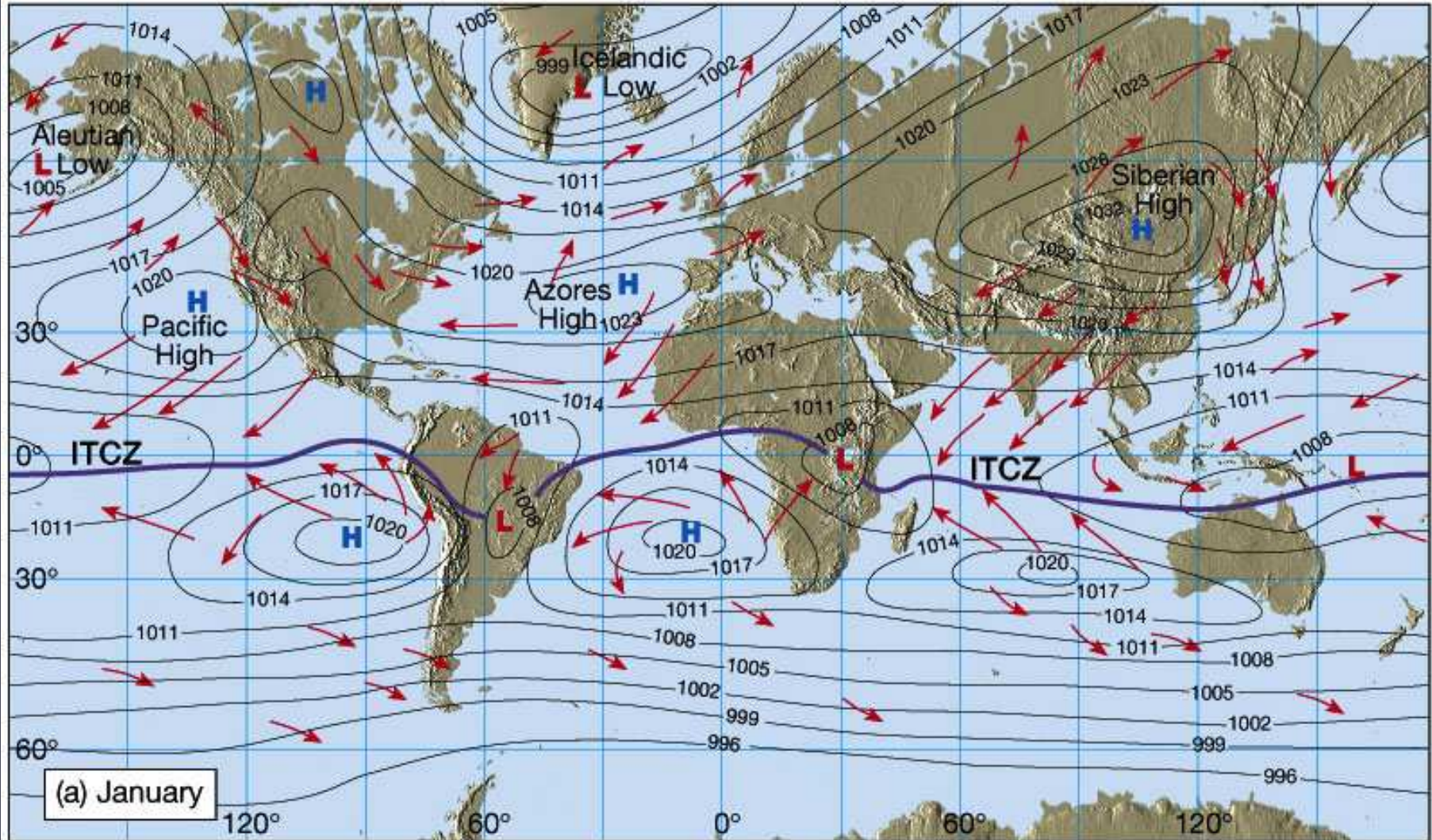
## Intertropical Convergence Zone



The Intertropical Convergence Zone (ITCZ) is the strong band of white clouds in this picture of the tropical Pacific.



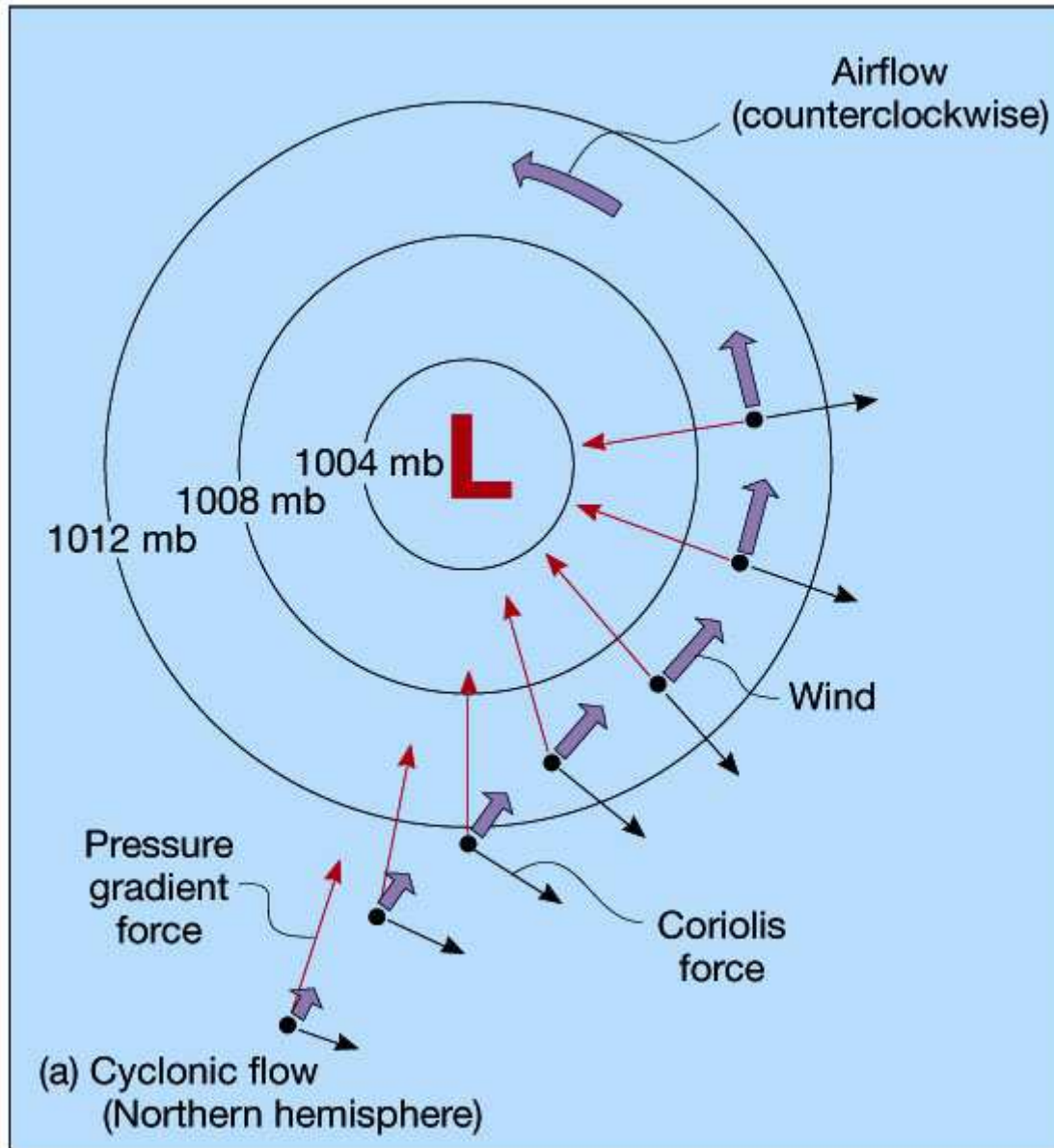
## Reale Windsysteme im Januar







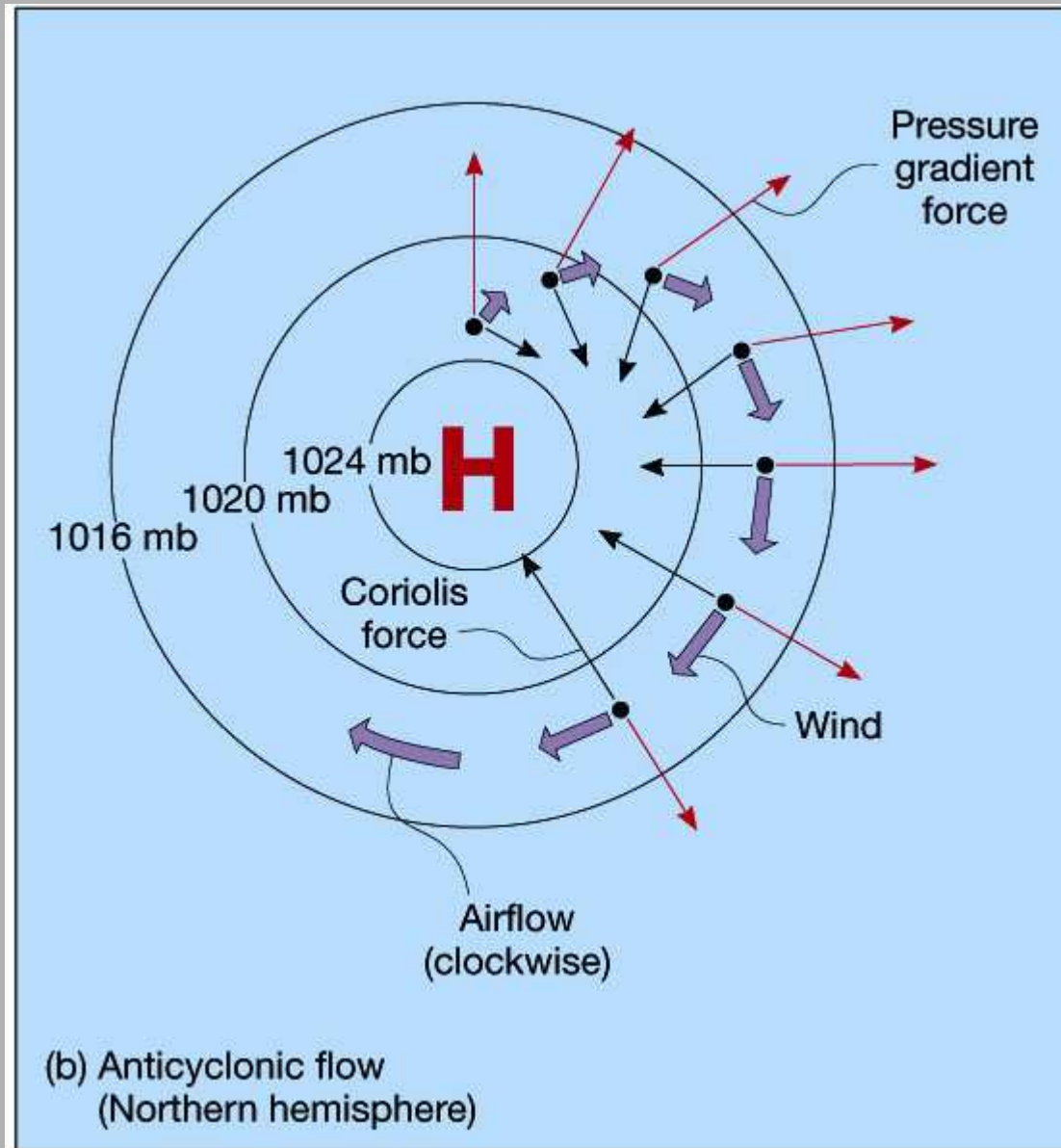
## Entstehung einer Zyklone auf der Nordhalbkugel







## Entstehung einer Anti-Zyklone auf der Nordhalbkugel





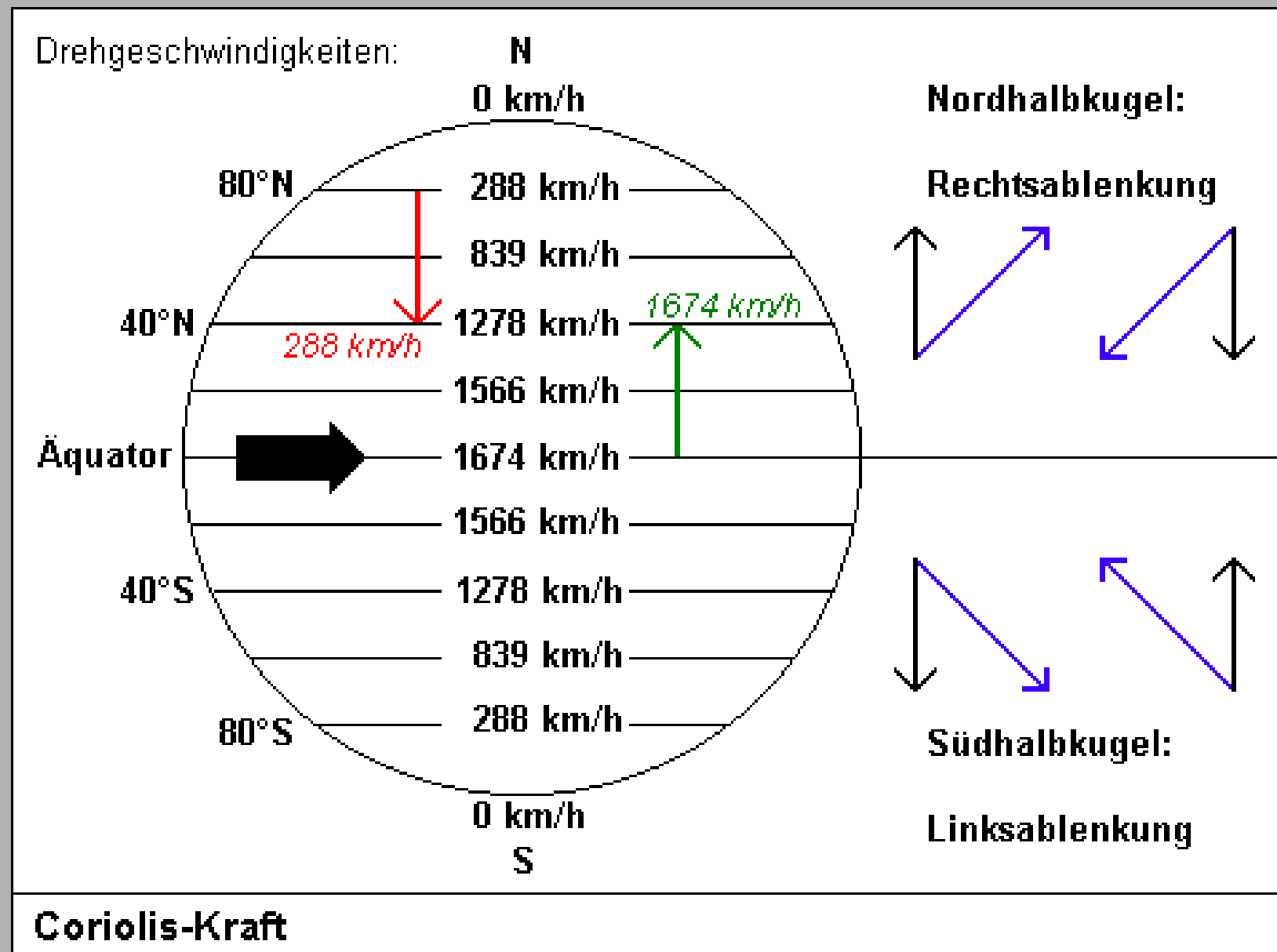
## Der Hurrikan Katrina (29.08.2005) am Golf von Mexiko



Zu diesem Zeitpunkt besaß der Hurrikan eine Stärke der Kategorie 3. Einen Tag später stand New Orleans zu großen Teilen unter Wasser.



## Bahngeschwindigkeiten auf der Erde







# W

