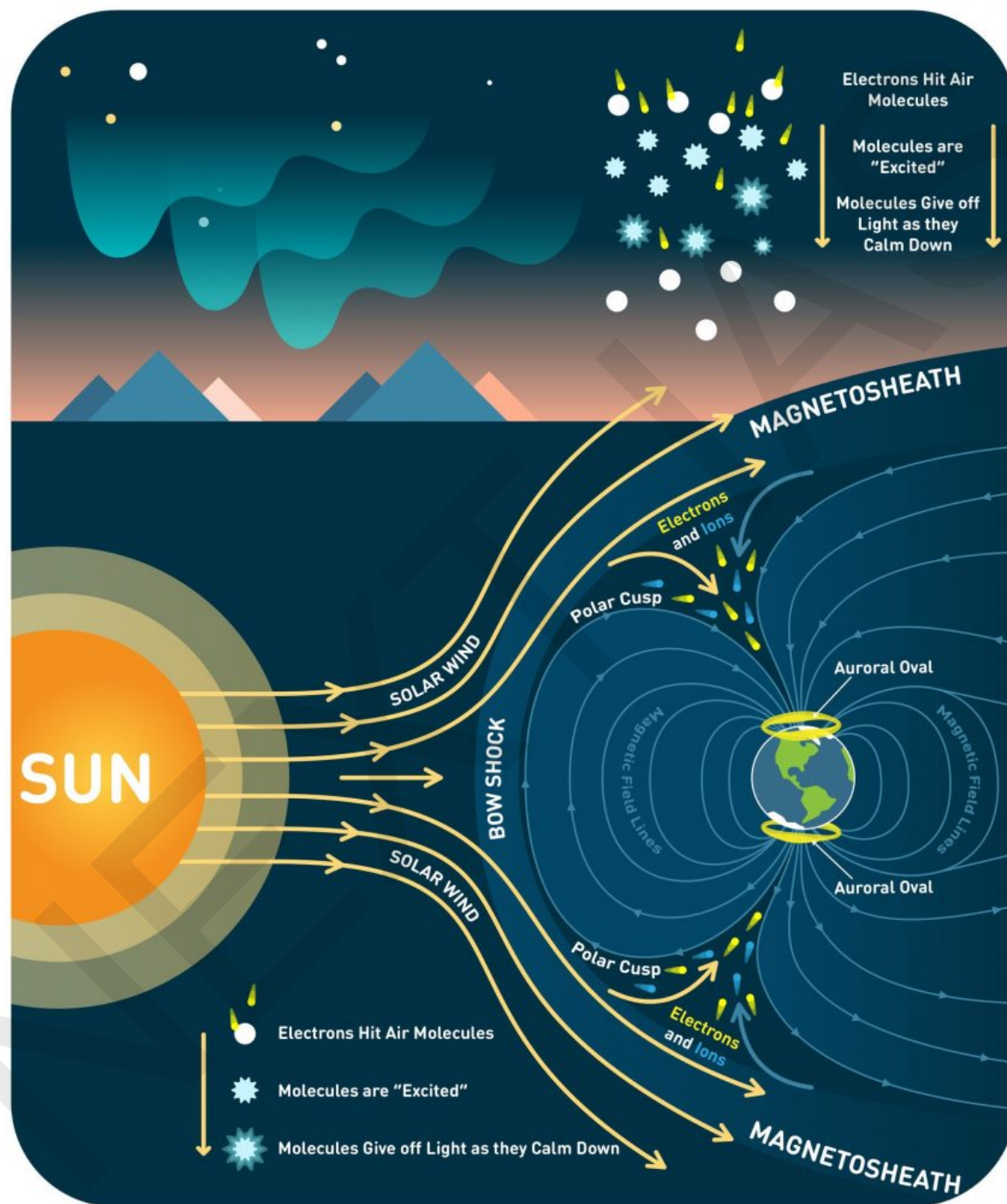
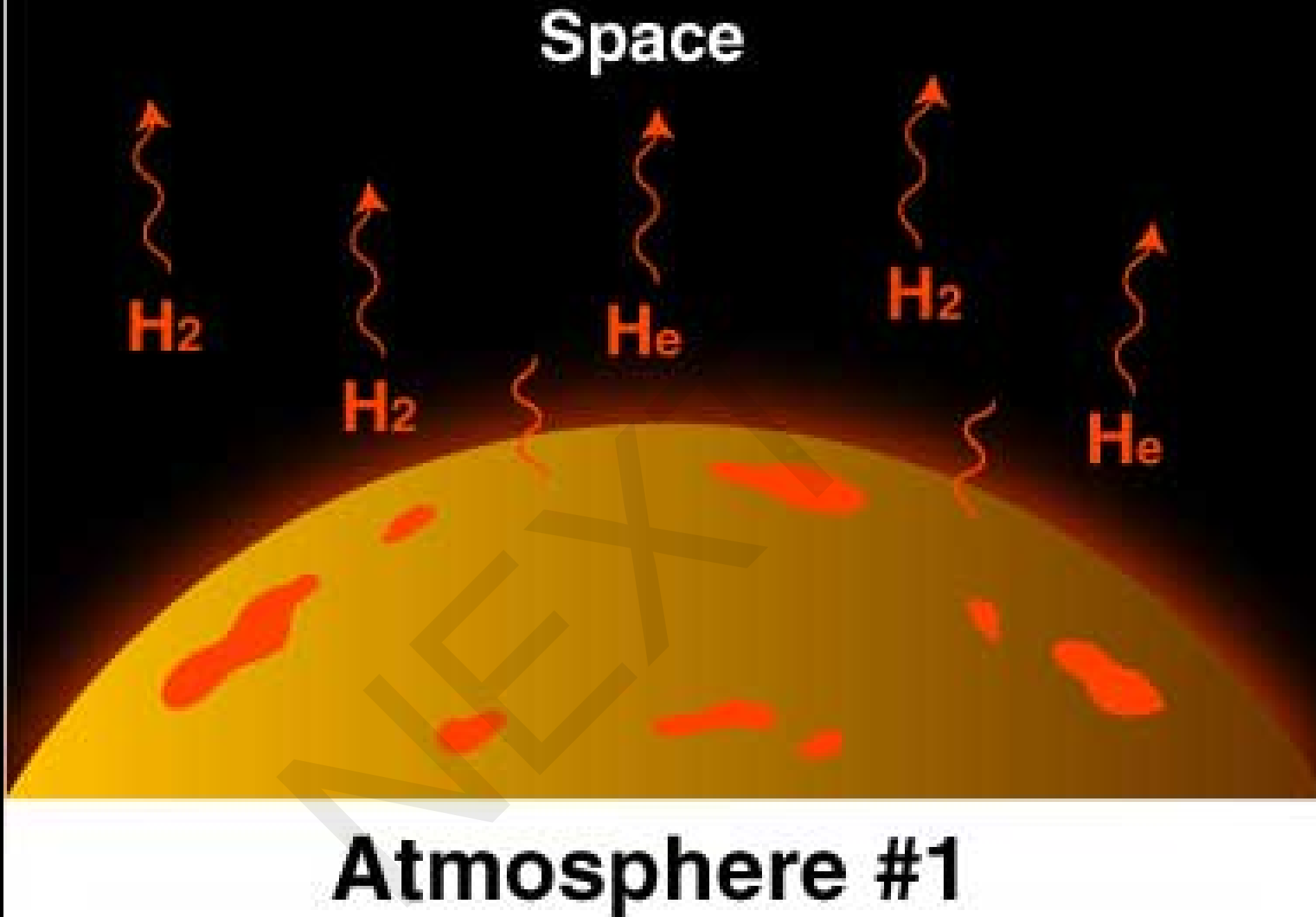
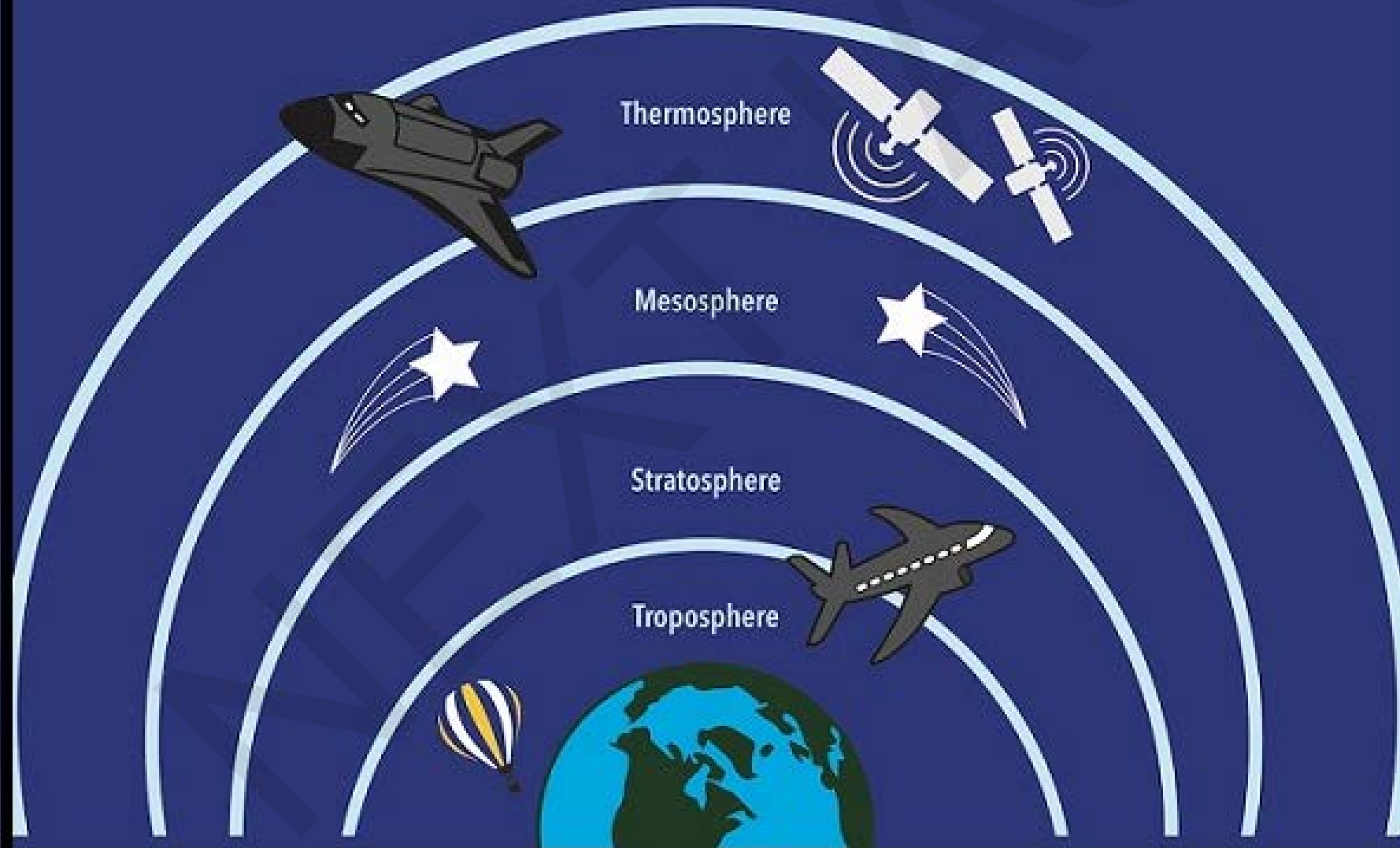


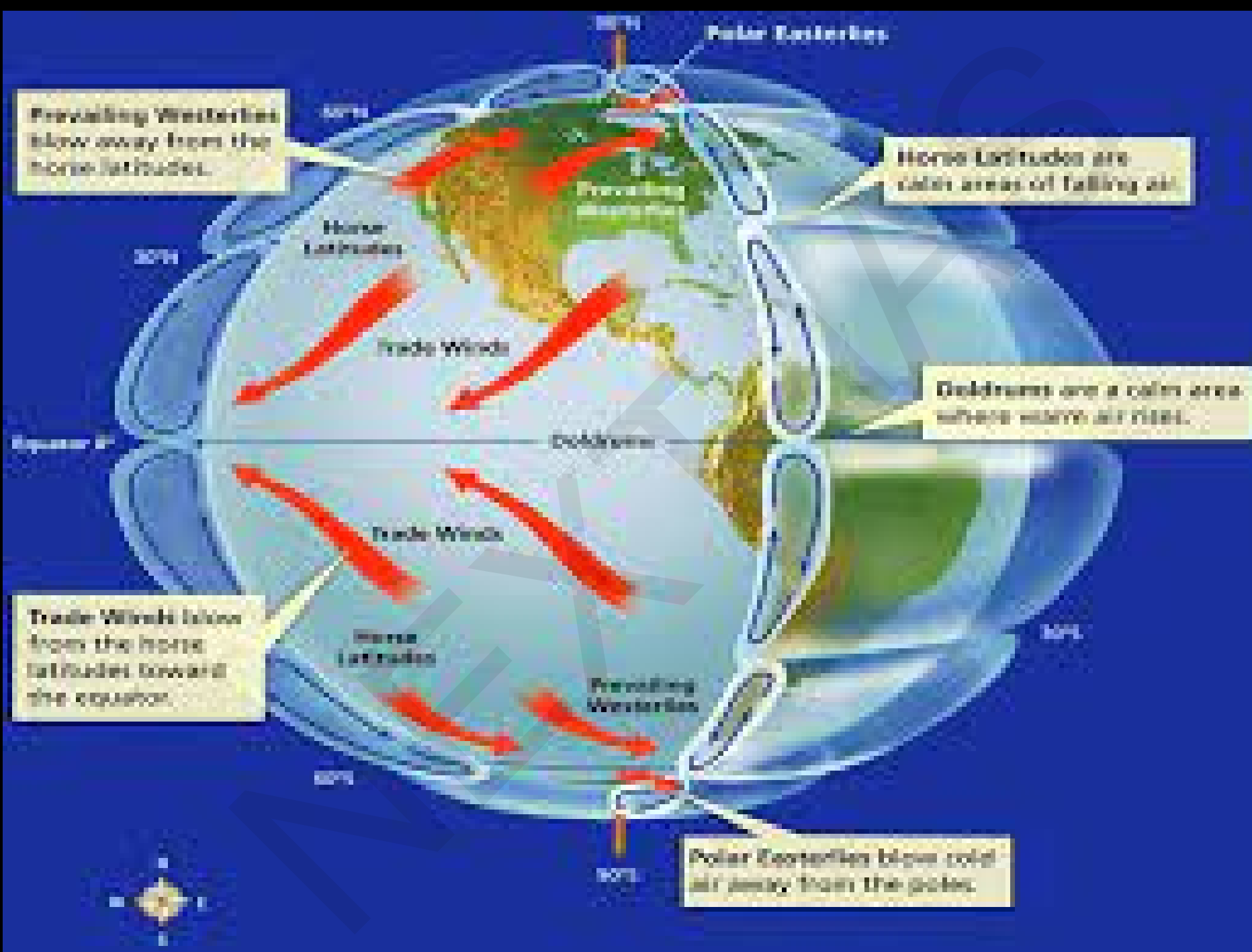
Atmosphere #2

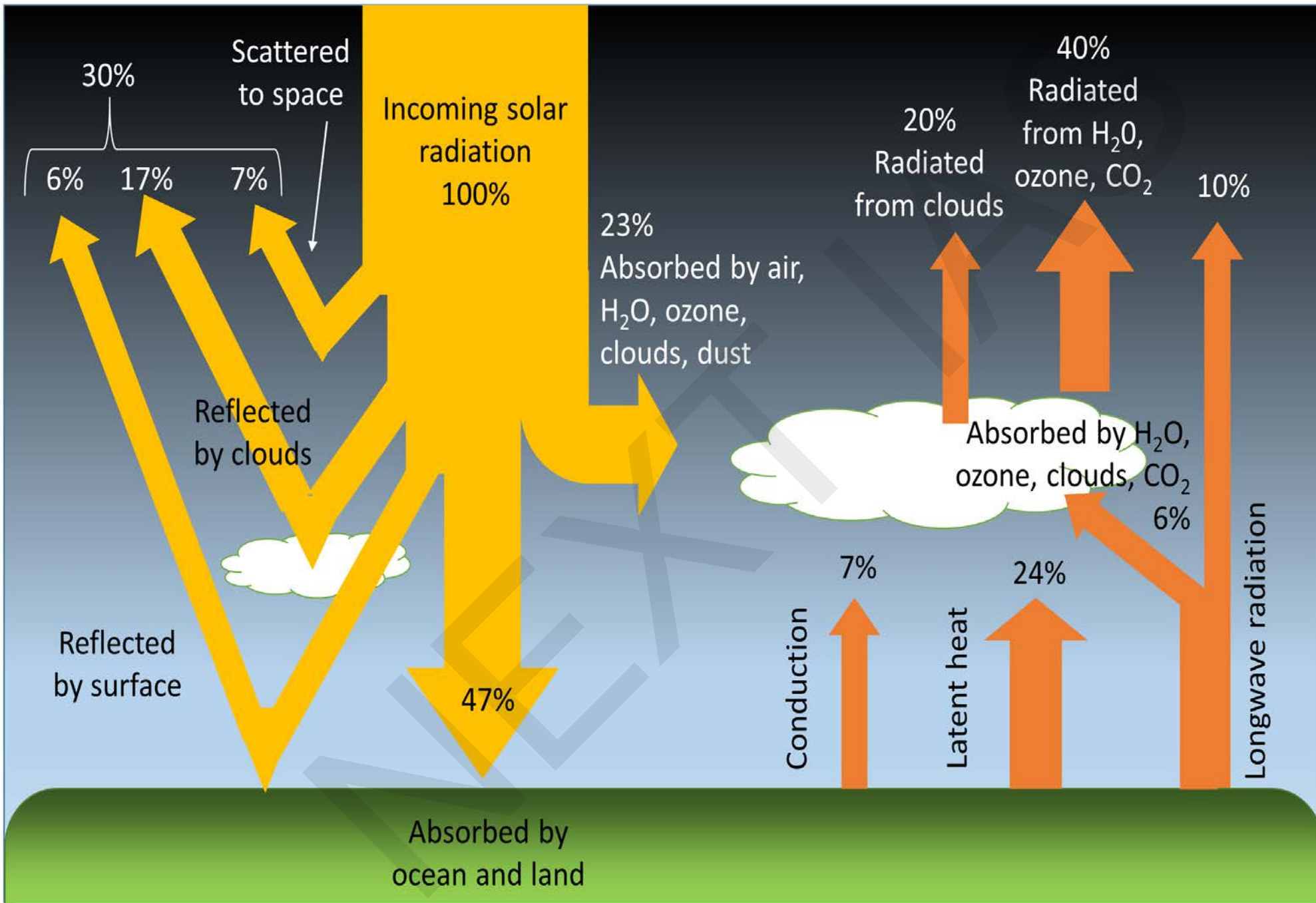




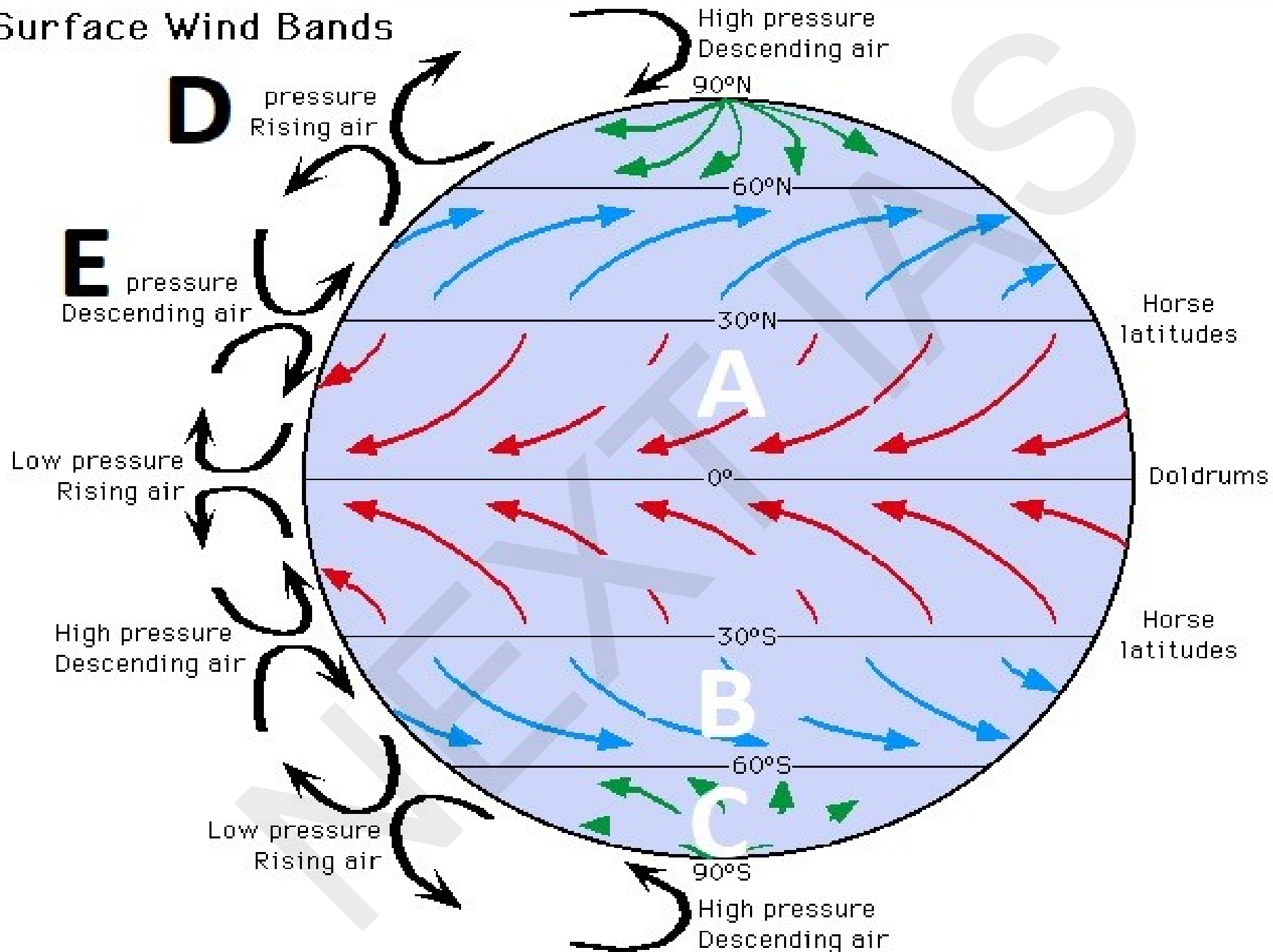
Layers of Atmosphere



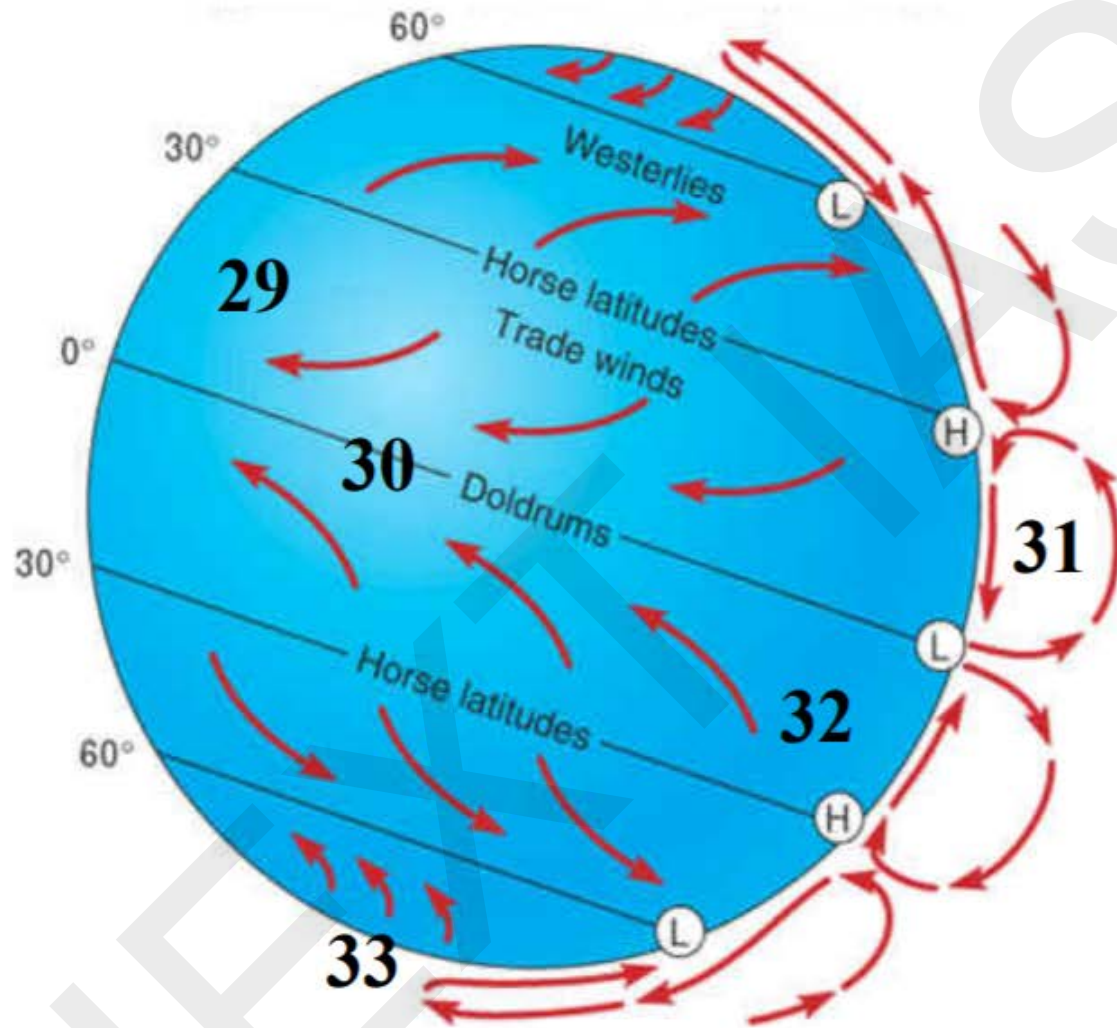




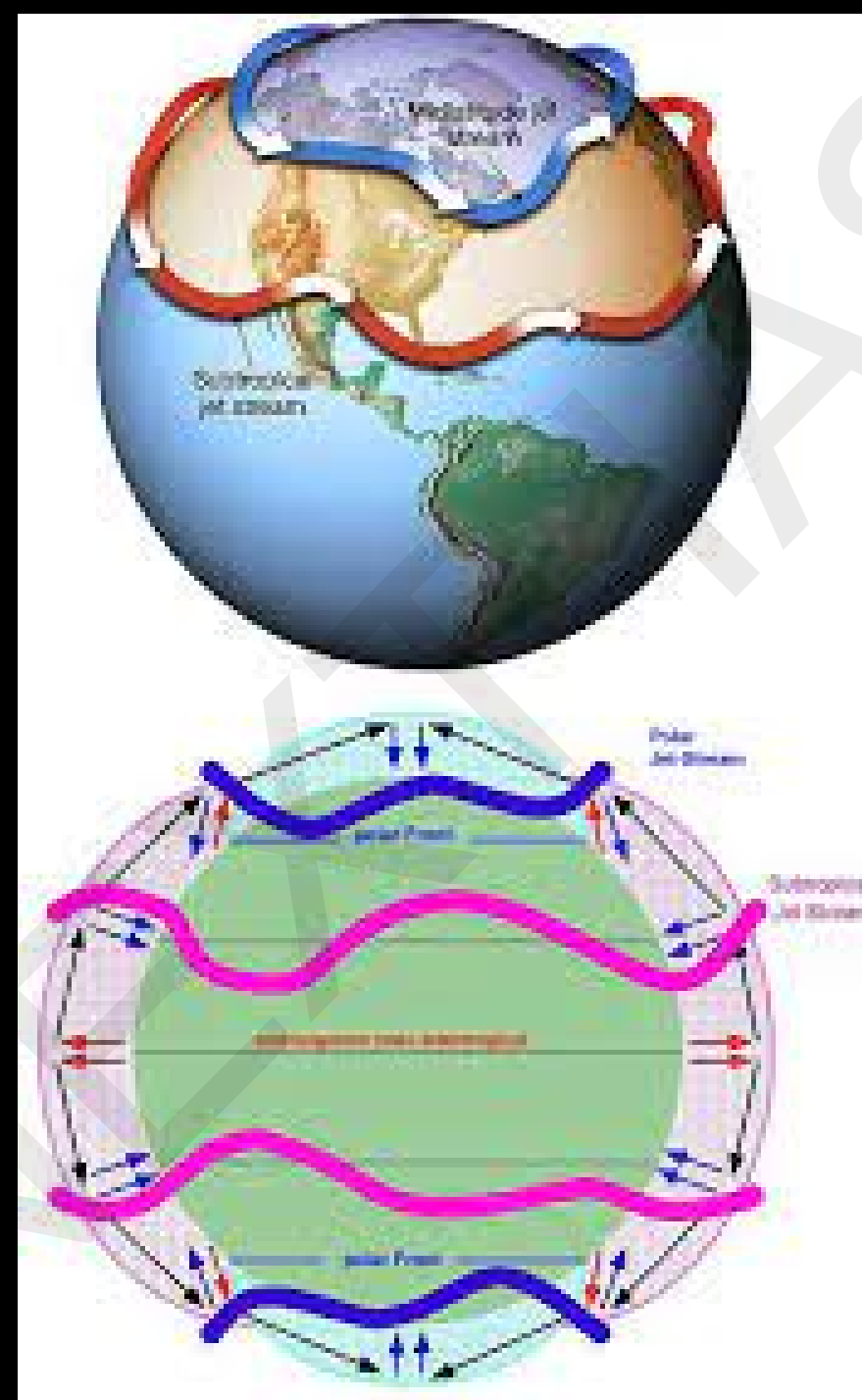
Surface Wind Bands

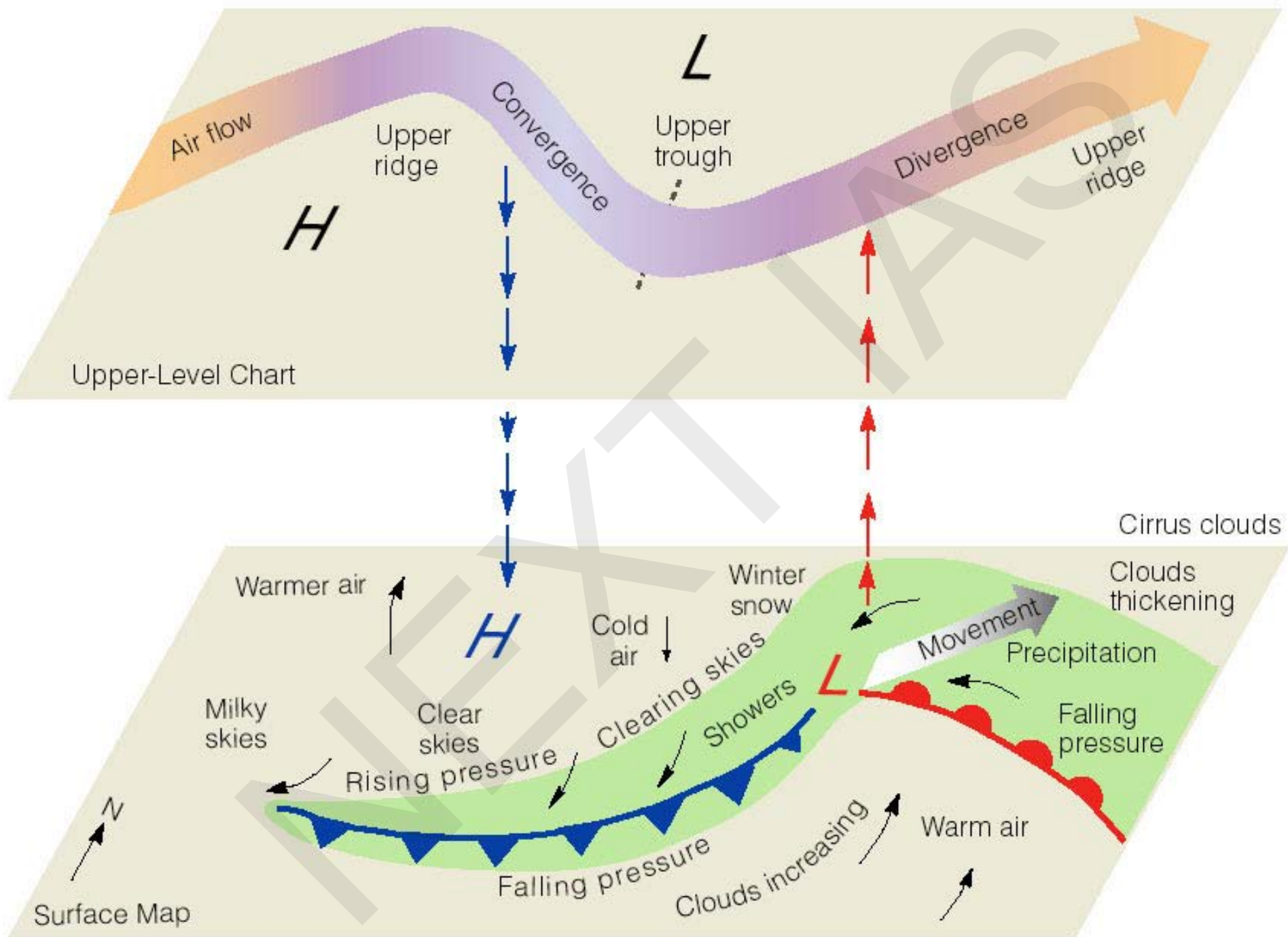


Atmospheric Circulation II

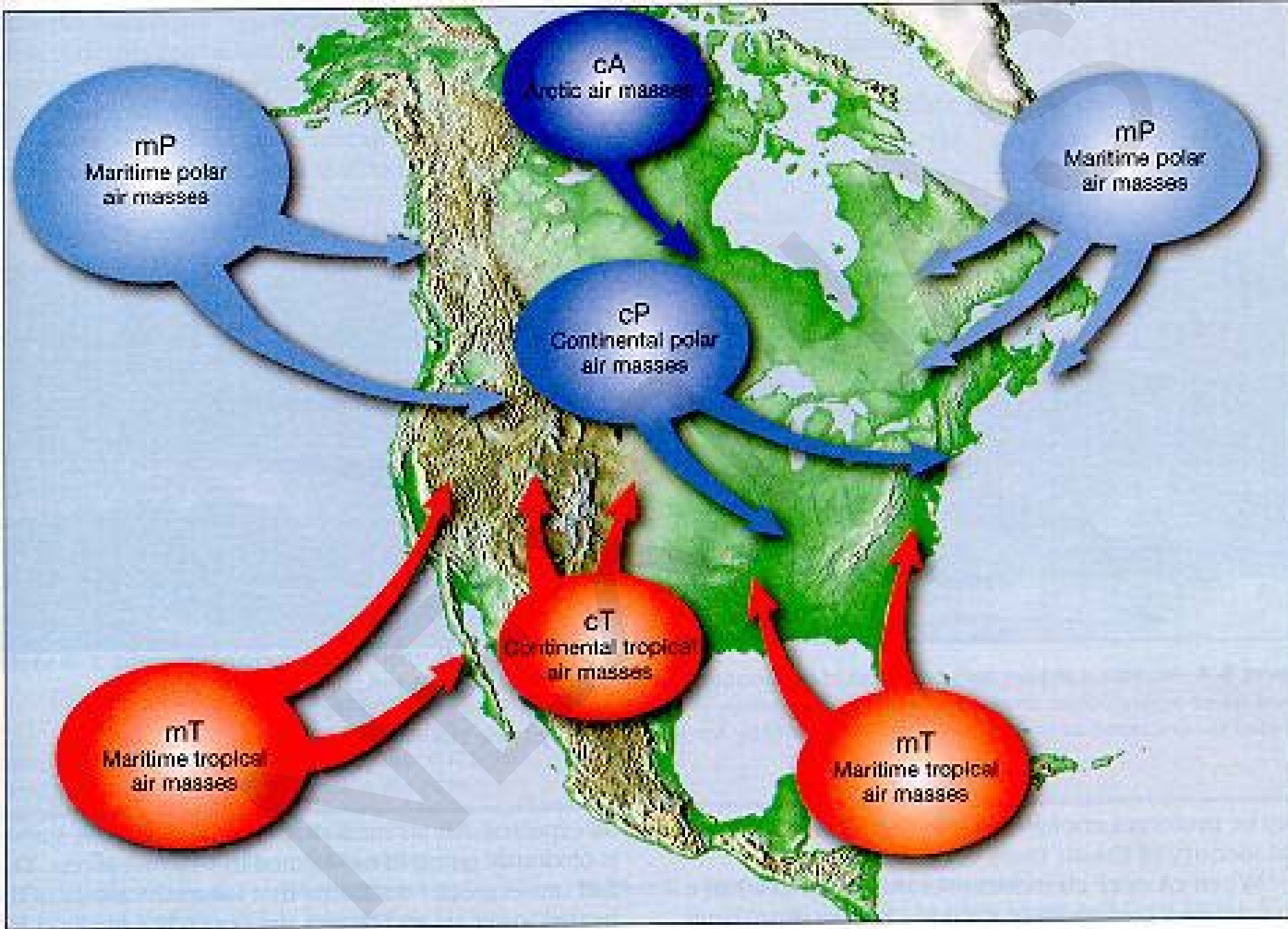


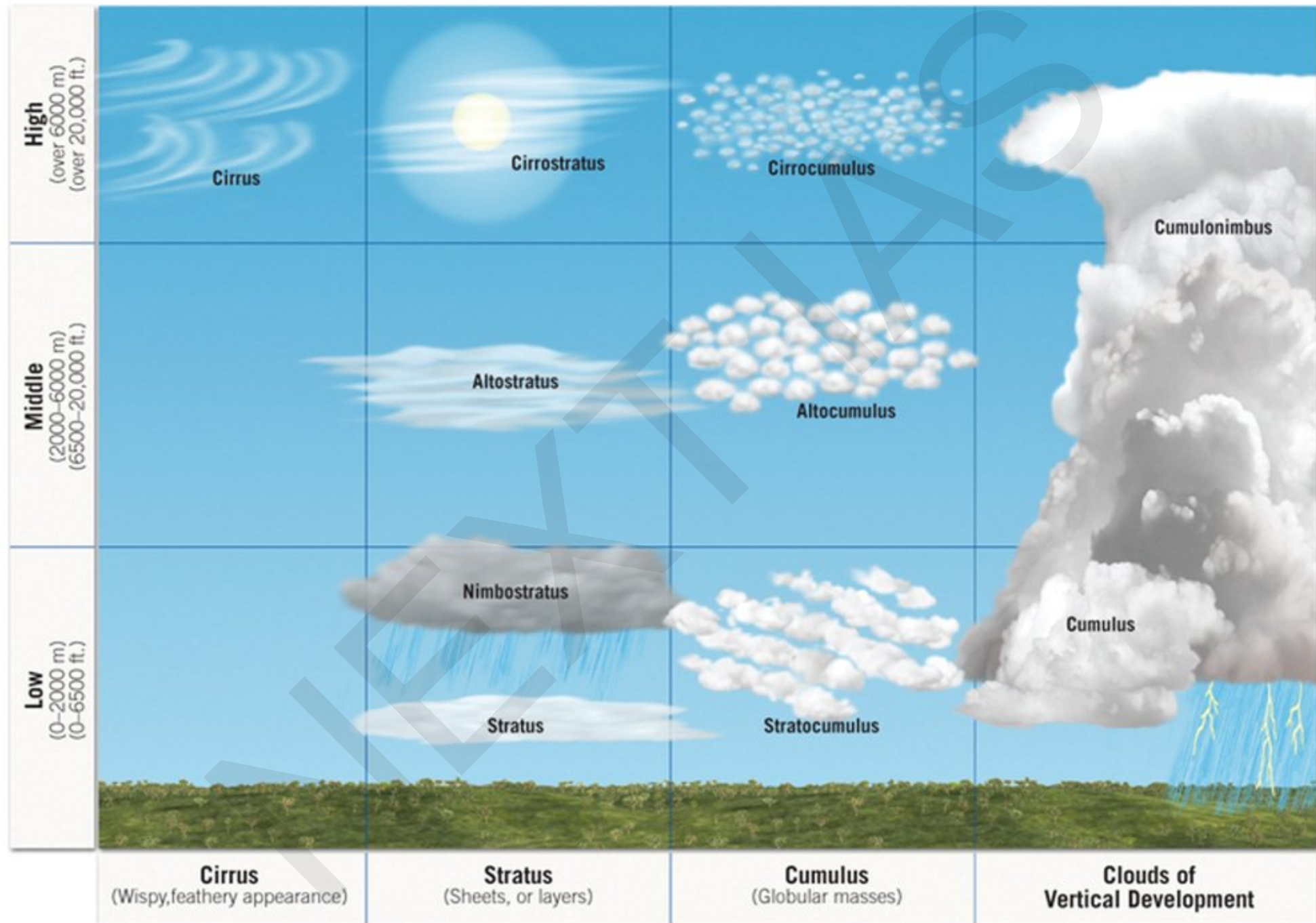
- a) Surface winds deflect to the left in the southern hemisphere
- b) A polar high pressure, where cold air blows toward the equator away from the pole.
- c) Atmospheric circulation from warm, humid region to cool dry region
- d) Surface winds converge at the ITCZ
- e) Surface winds deflect to the right in the northern hemisphere



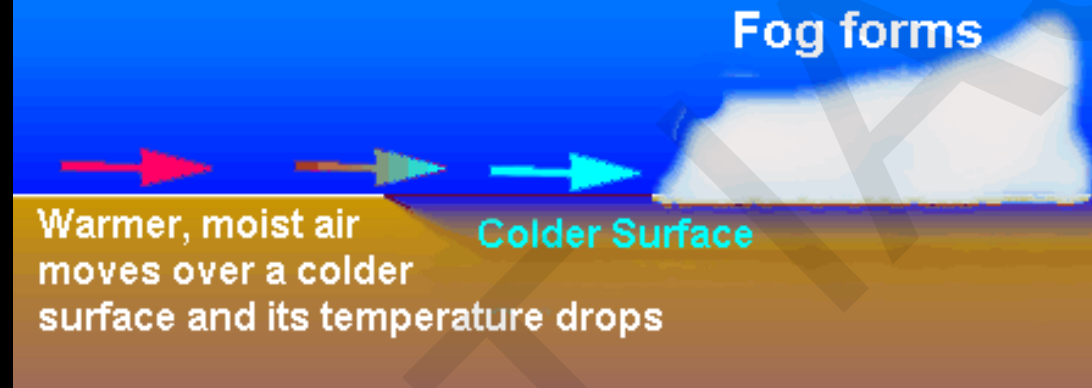




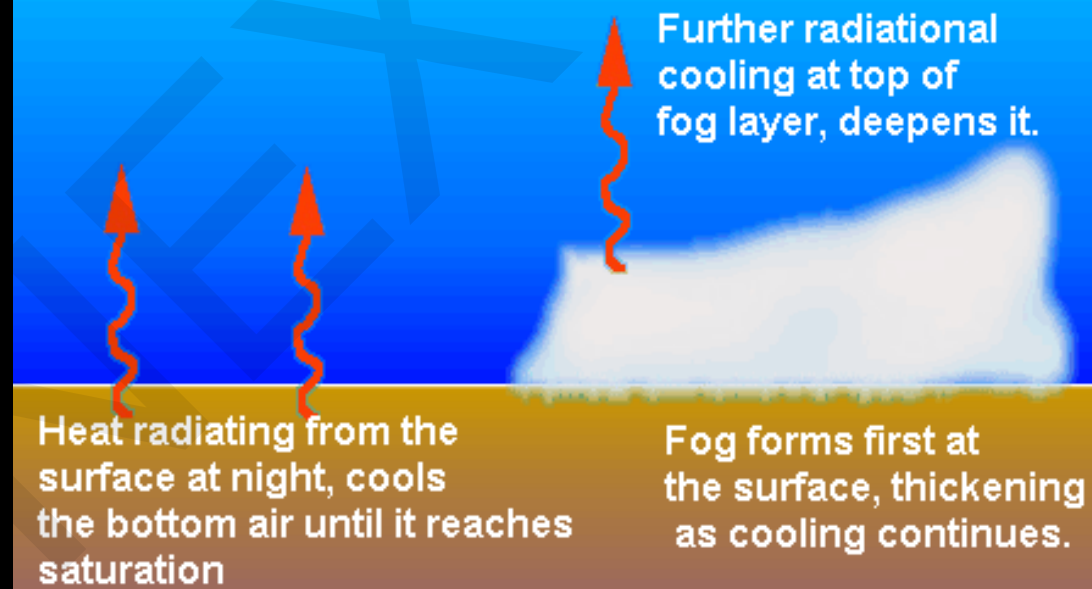


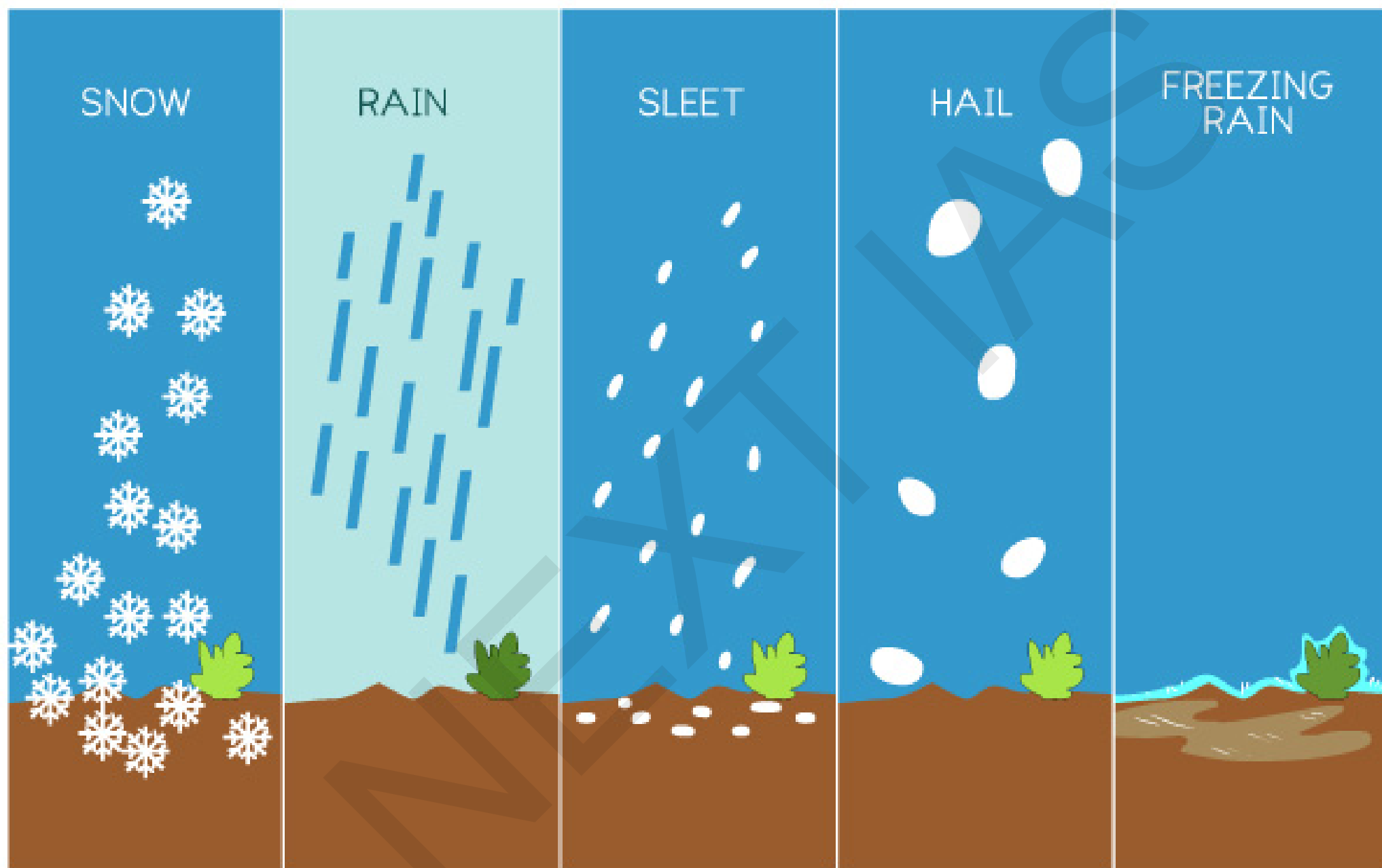


Advection Fog



Radiation Fog

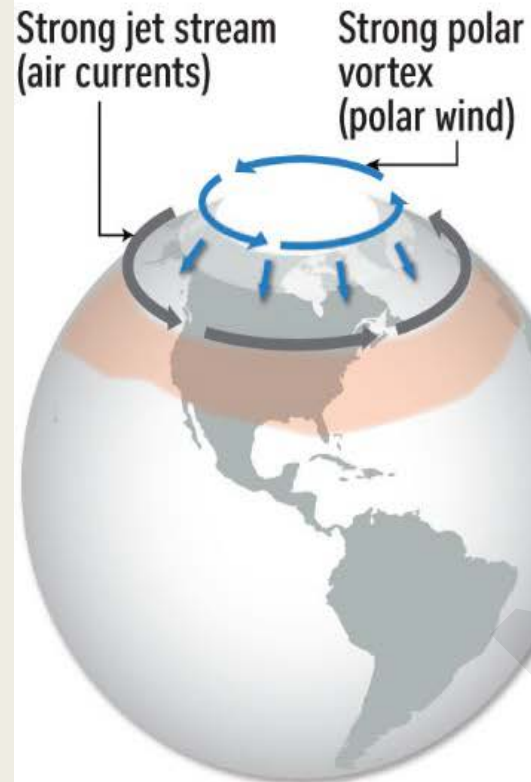




Changes in the Arctic

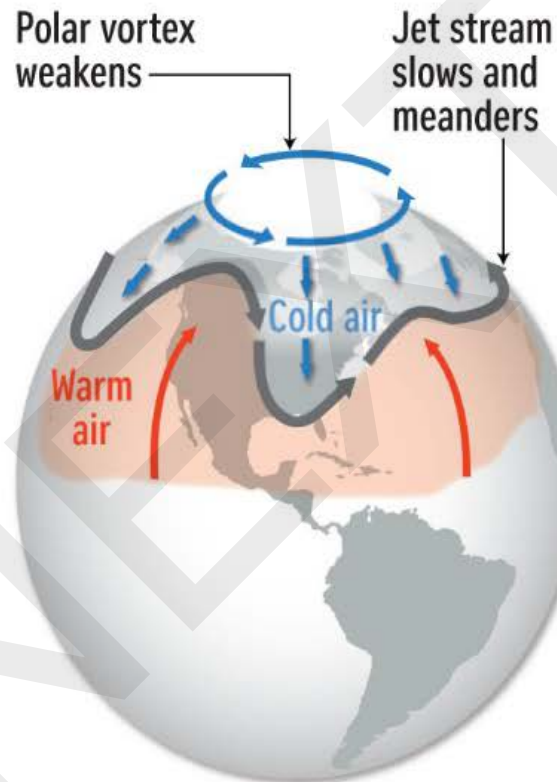
NORMAL CIRCUMSTANCES

Strong polar vortex and jet stream trap freezing air in the Arctic and warm air in lower latitudes

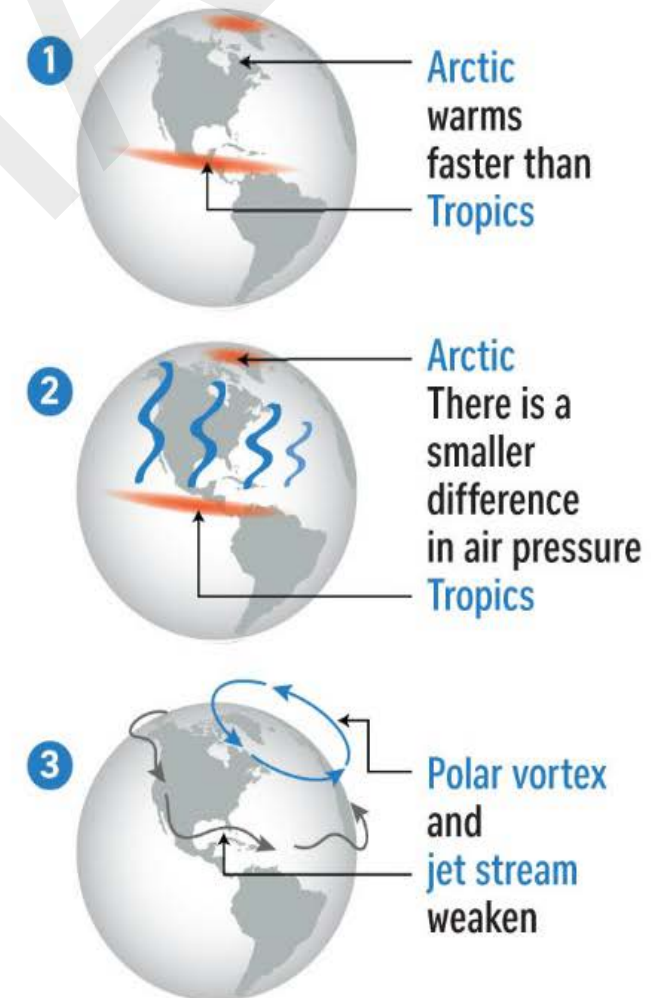


ARCTIC WARMS FASTER THAN LOWER LATITUDES

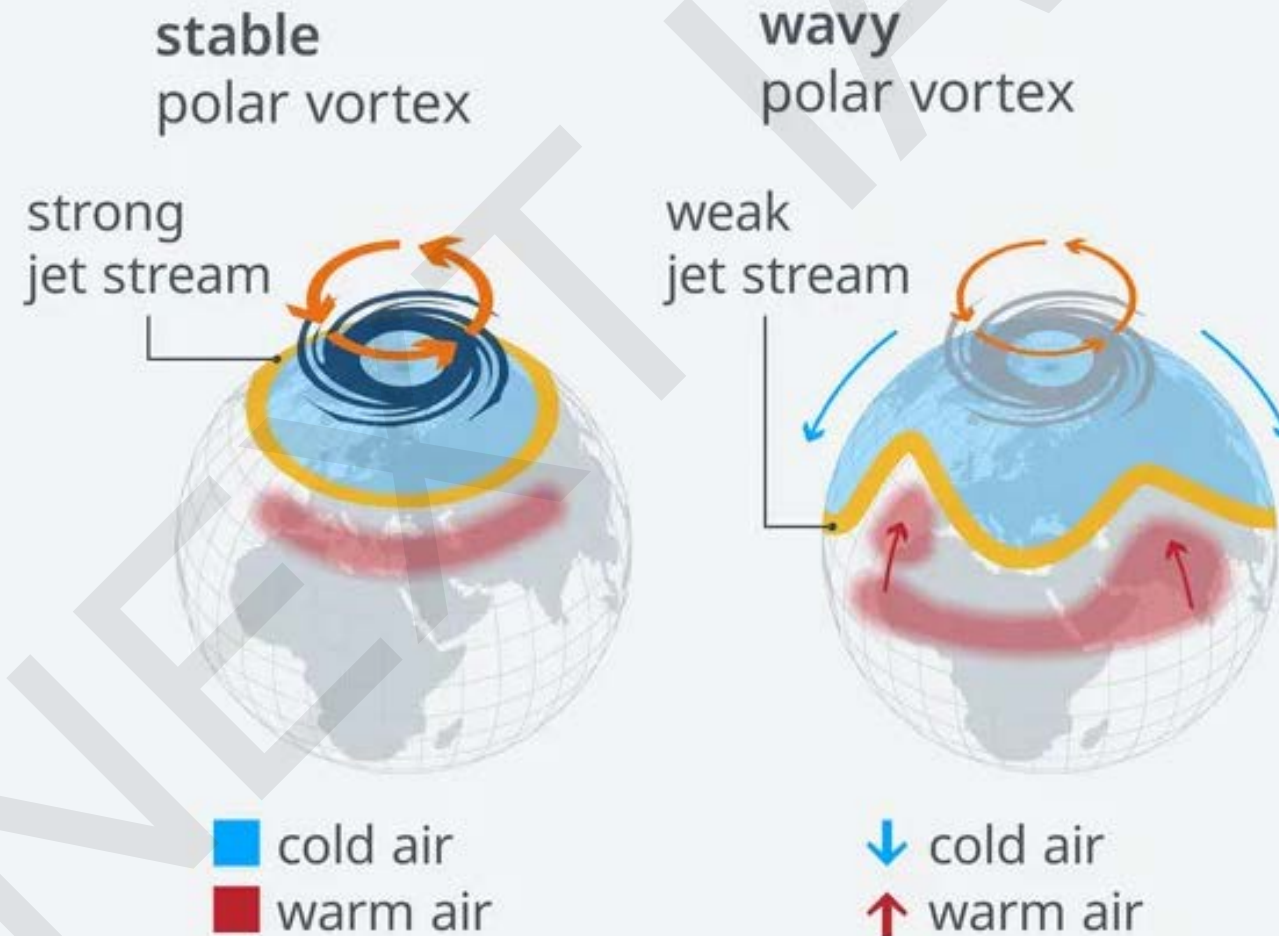
Polar vortex and jet stream weaken, so Arctic air moves south and warm air moves north



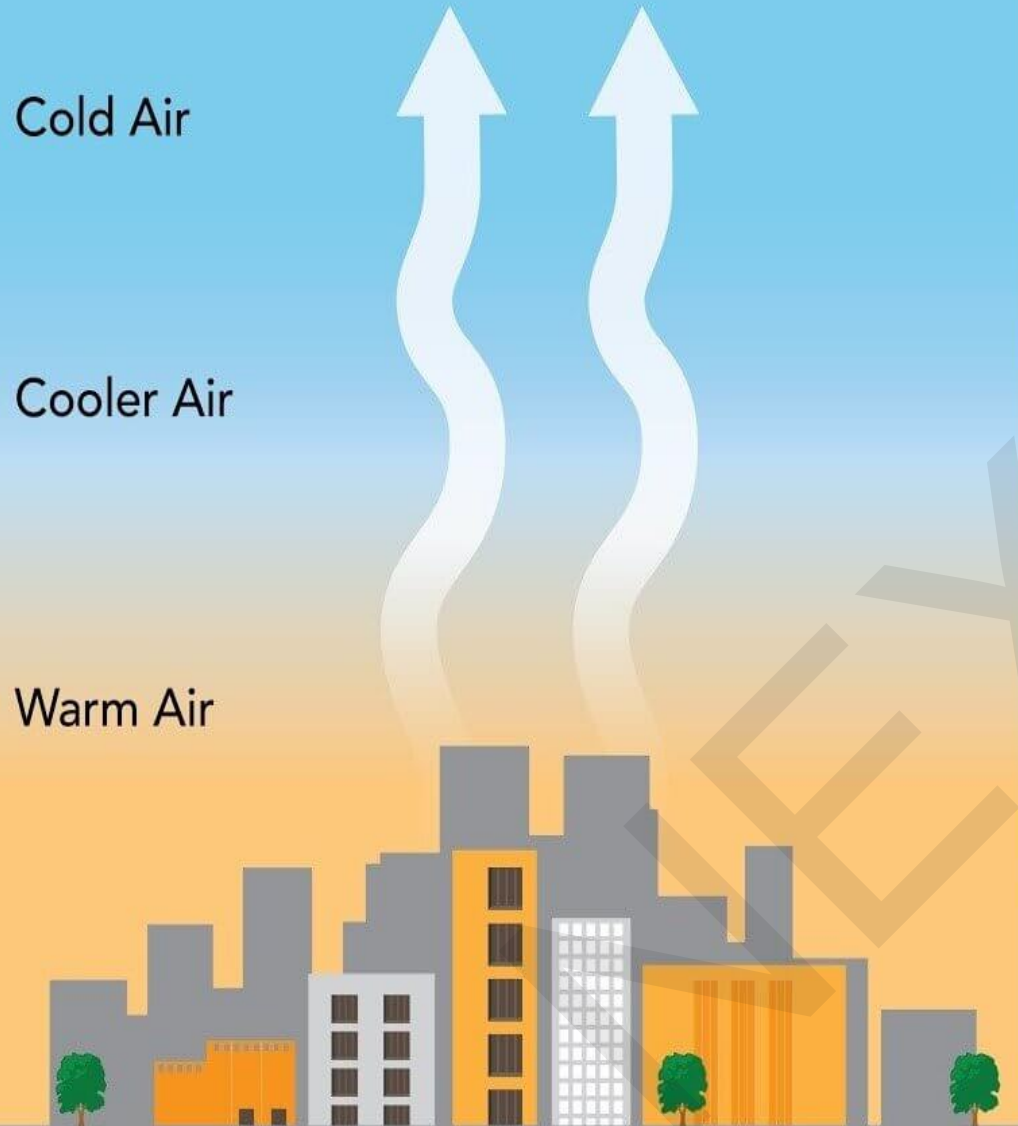
HOW CLIMATE CHANGE DISRUPTS THE POLAR VORTEX



How the polar vortex affects our weather



Normal Conditions



Temperature Inversion

Cold Air

Warm Air – Inversion Layer

Cooler Air

Smog

