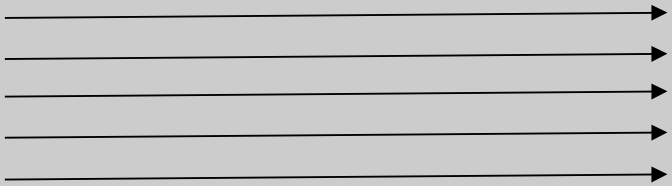
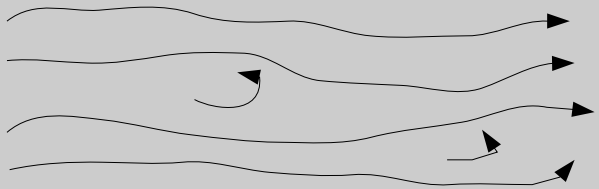
Quelques bases

d'Aérologie

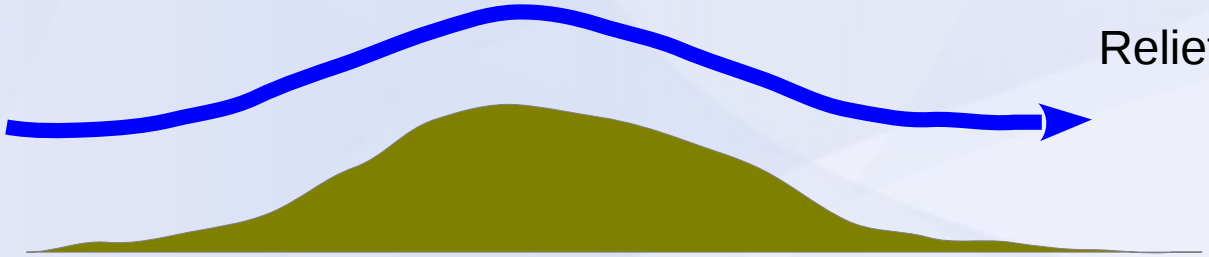
Ecoulements dynamiques

Ecoulement Laminaire	Ecoulement Turbulent
-Vent sur la mer -Terrain plat -Temps stable	-Vent sur sol rugueux -Relief accidenté -Temps perturbé
	

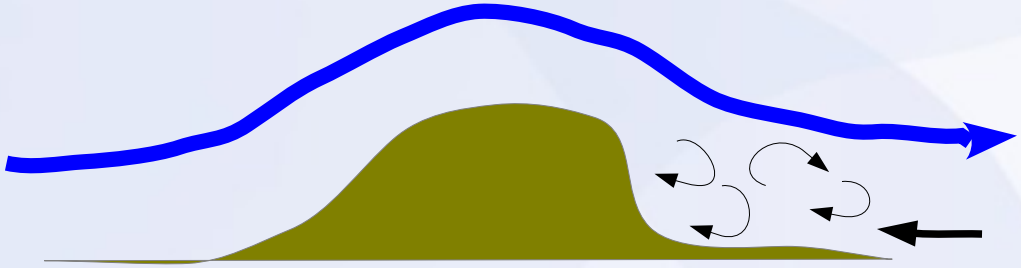
Ecoulements dynamiques

Ecoulement autour d'un relief

Relief doux et régulier

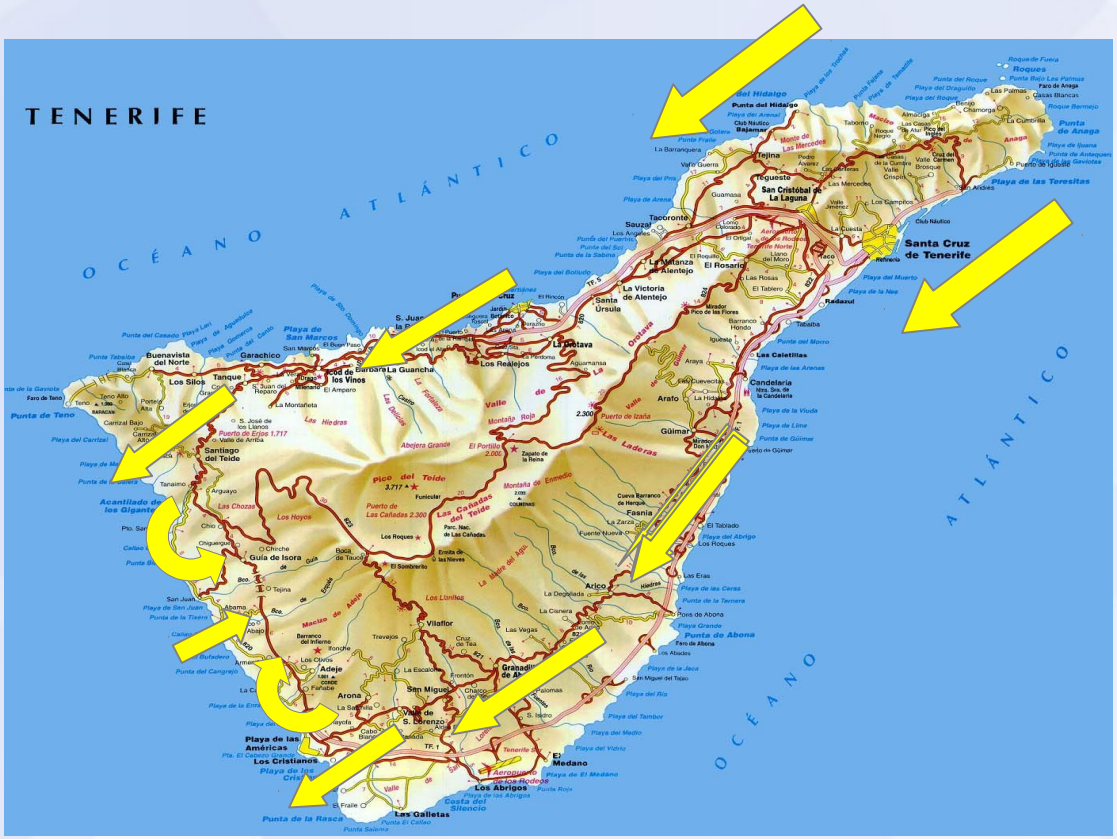


Relief accidenté :



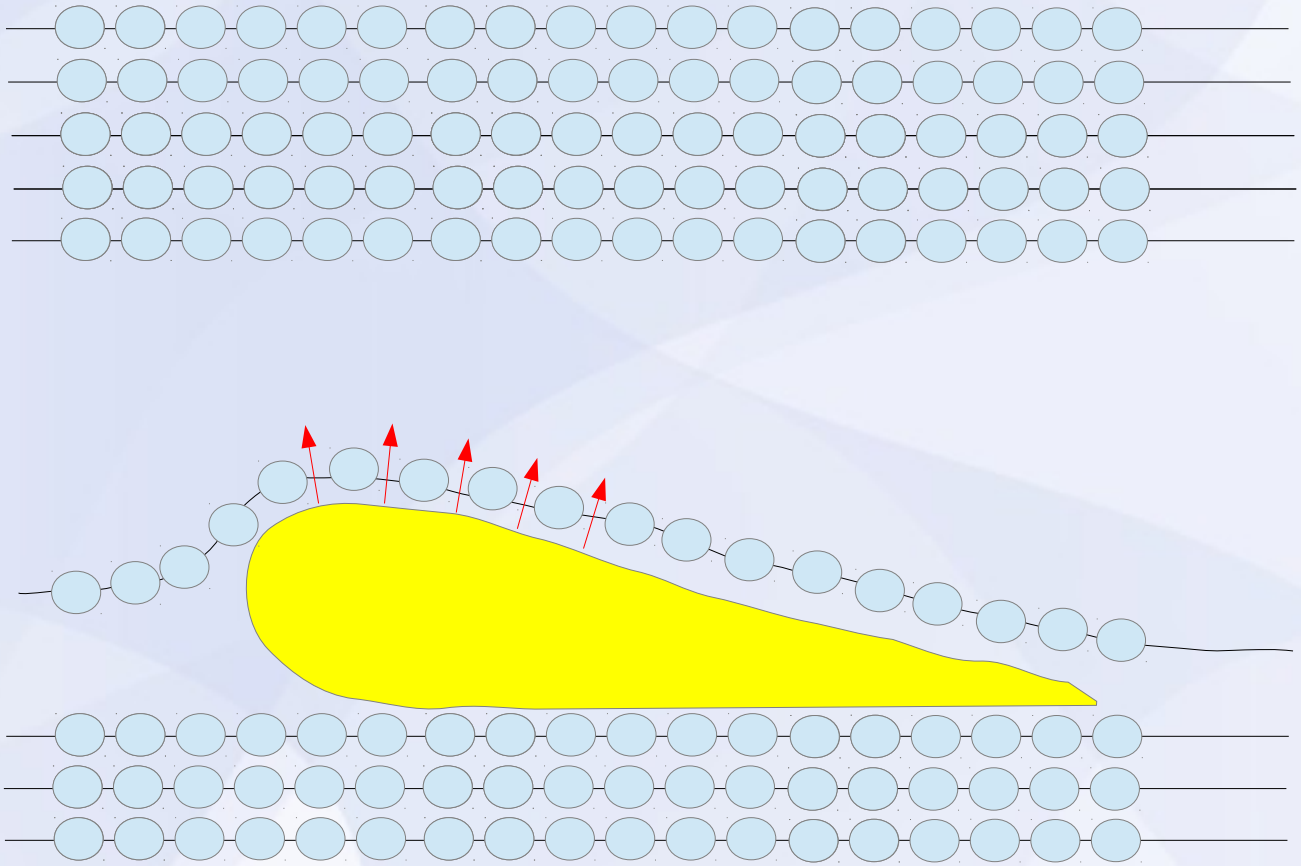
Ecoulements dynamiques

Ecoulement autour d'un relief. Exemple : Tenerife (Canaries)



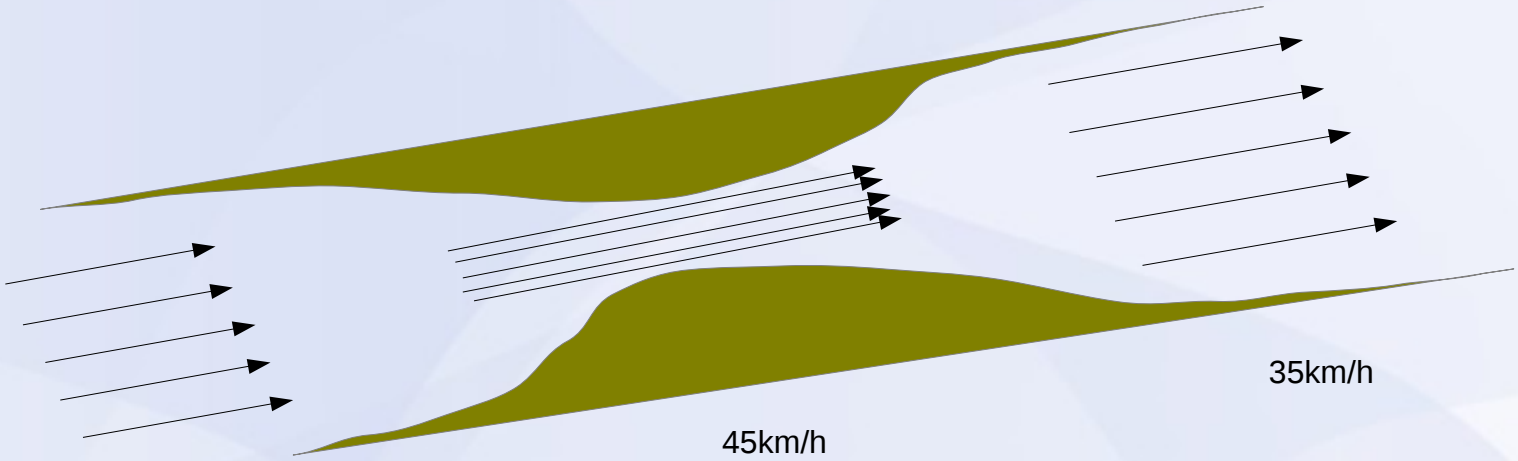
Alizés
(flux de NE)

Ecoulements dynamiques



Ecoulements dynamiques

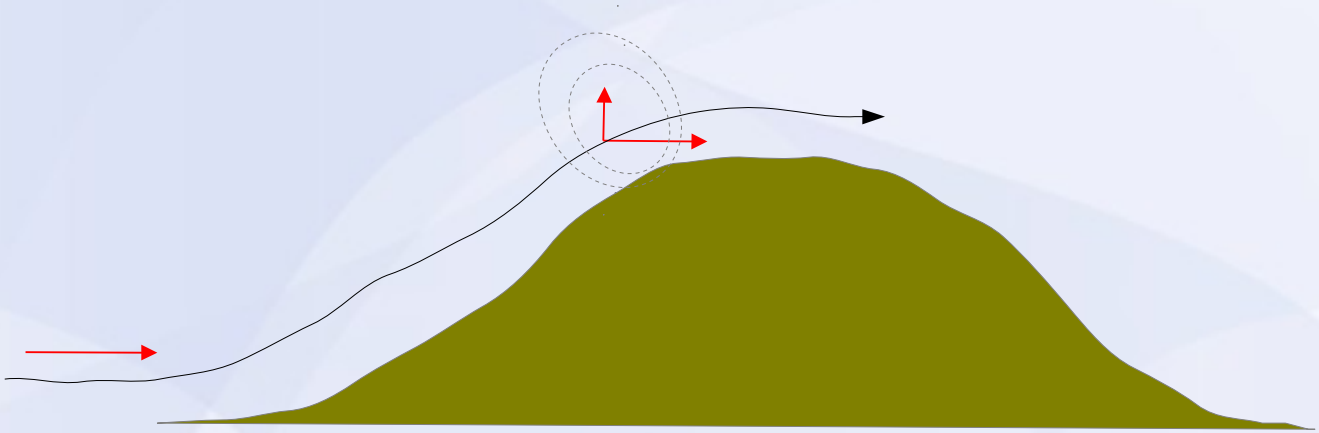
Effet Venturi



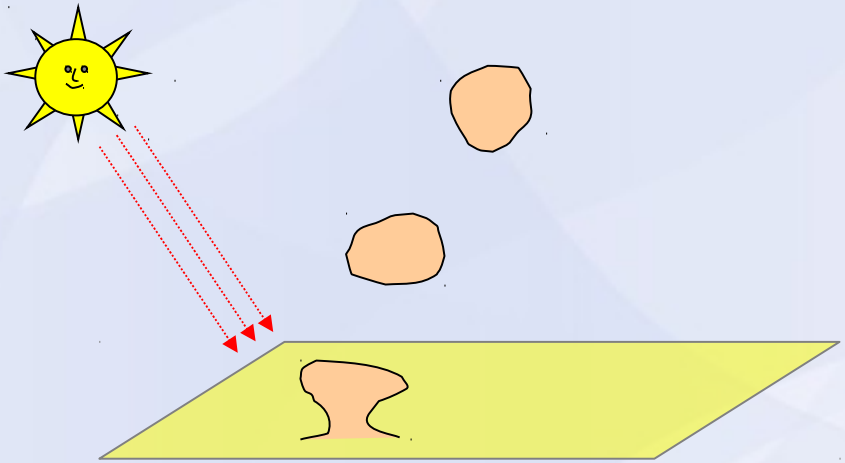
Ascendance dynamique

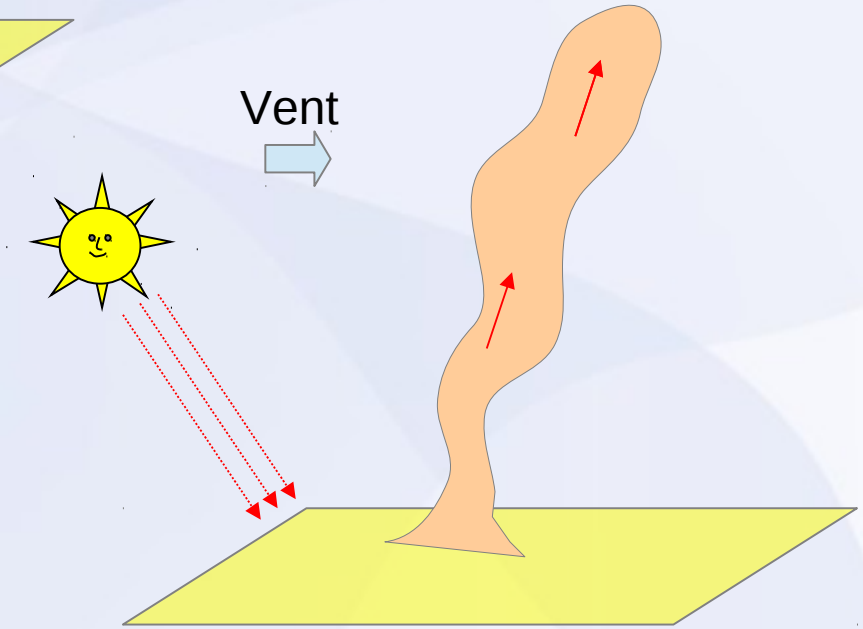
Ecoulement d'air sur une pente

Création d'un mouvement vertical



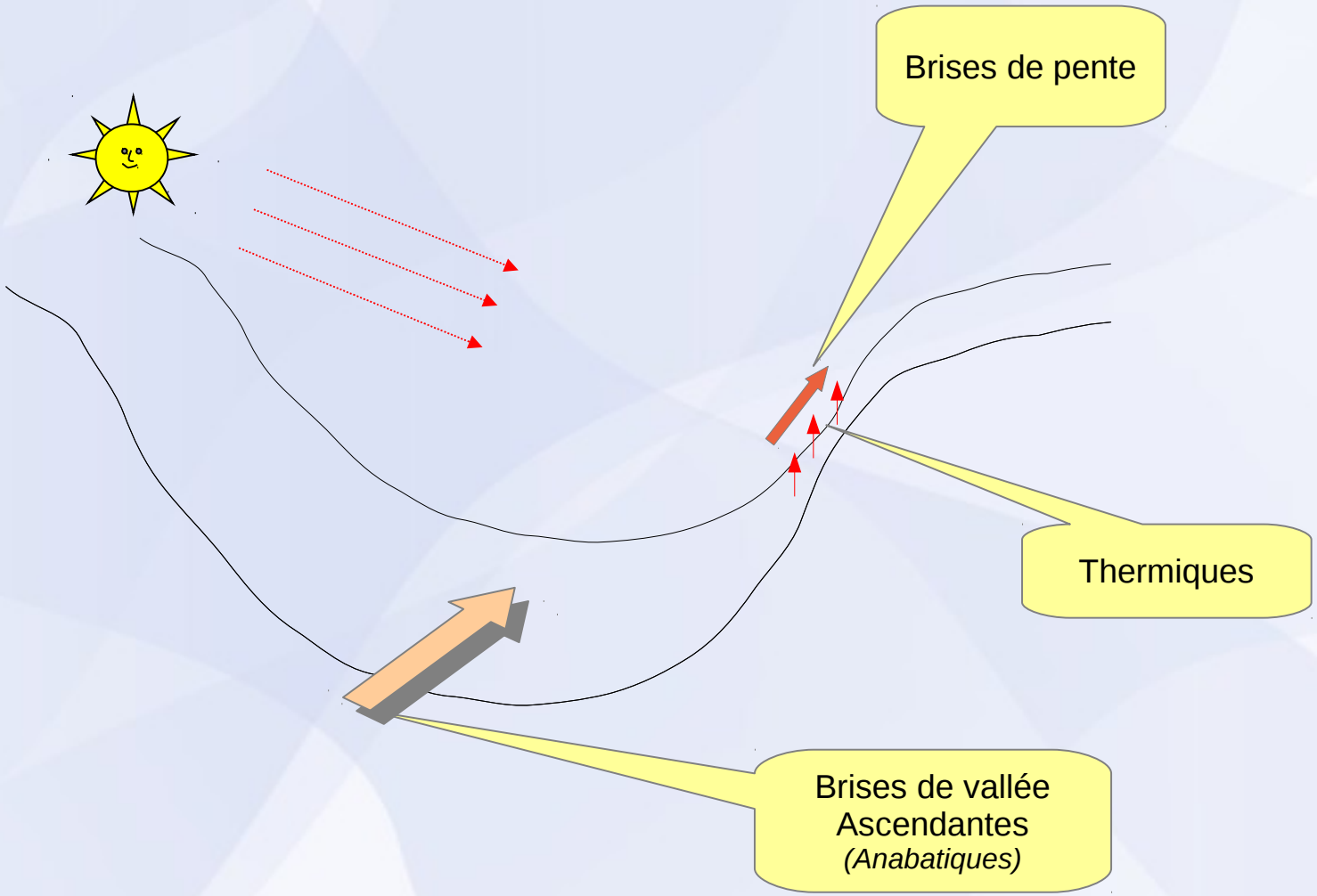
Ascendance thermique





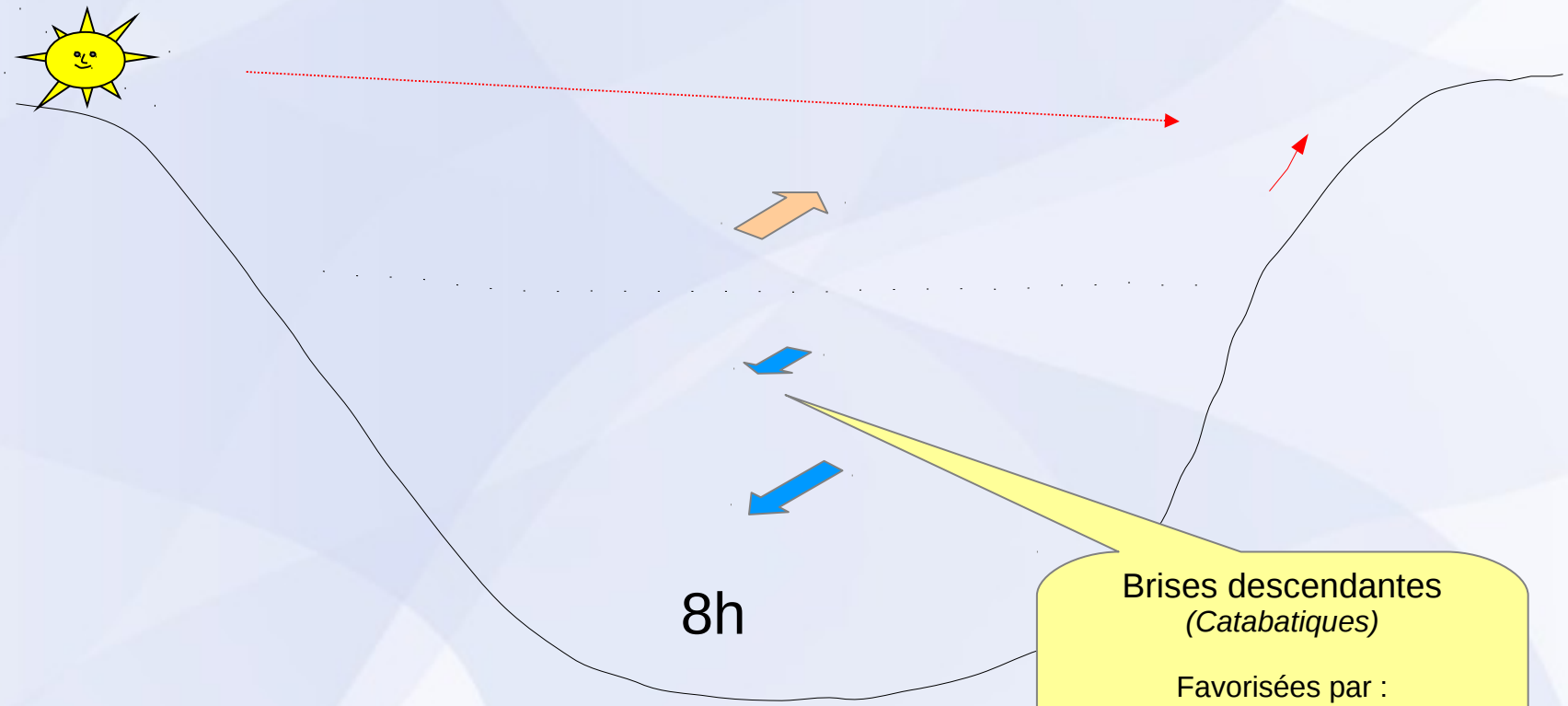
Dans l'air, la chaleur se déplace principalement par convection : c'est à dire par déplacement de particules

Brises de pente

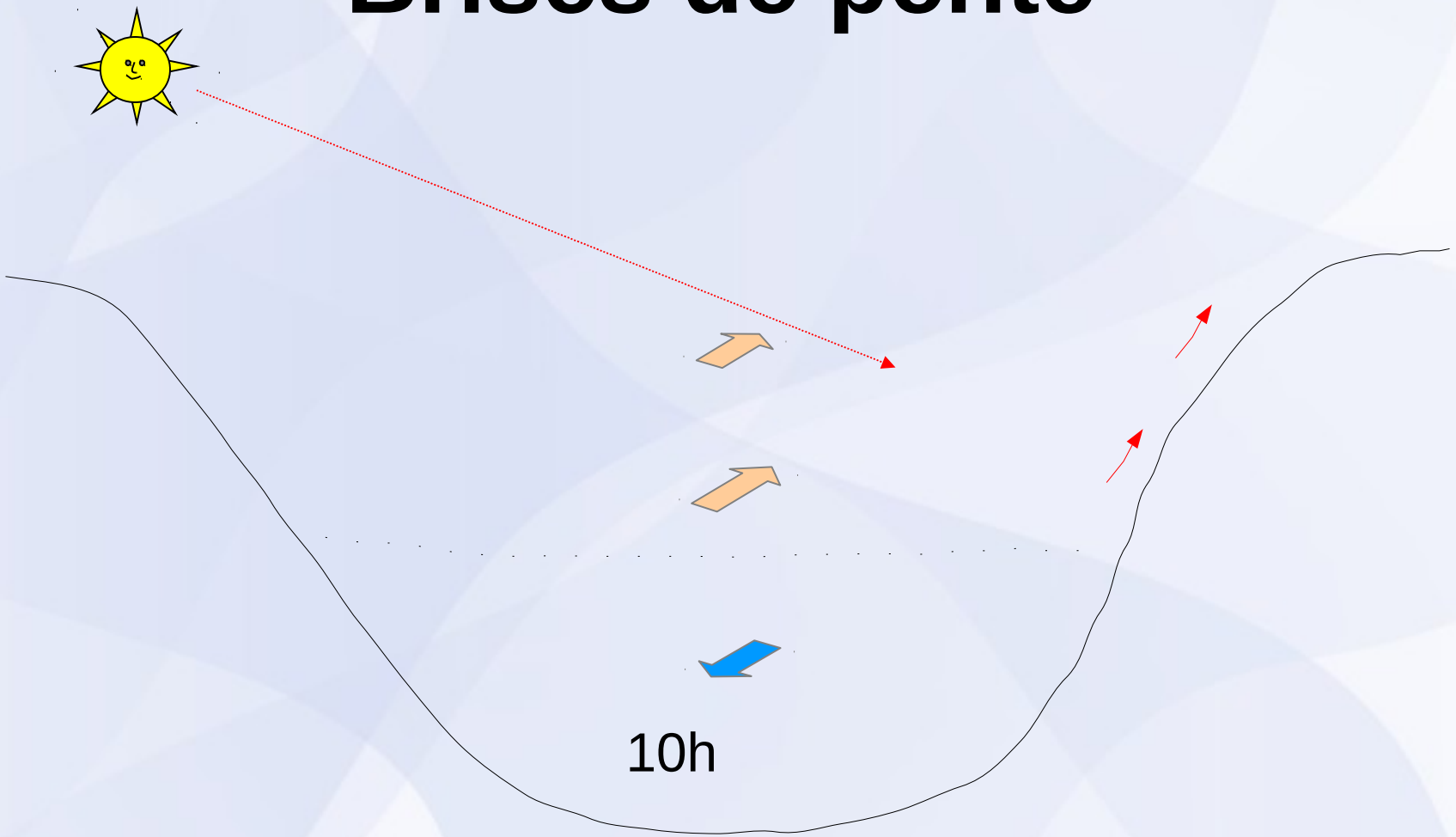


Brises de pente

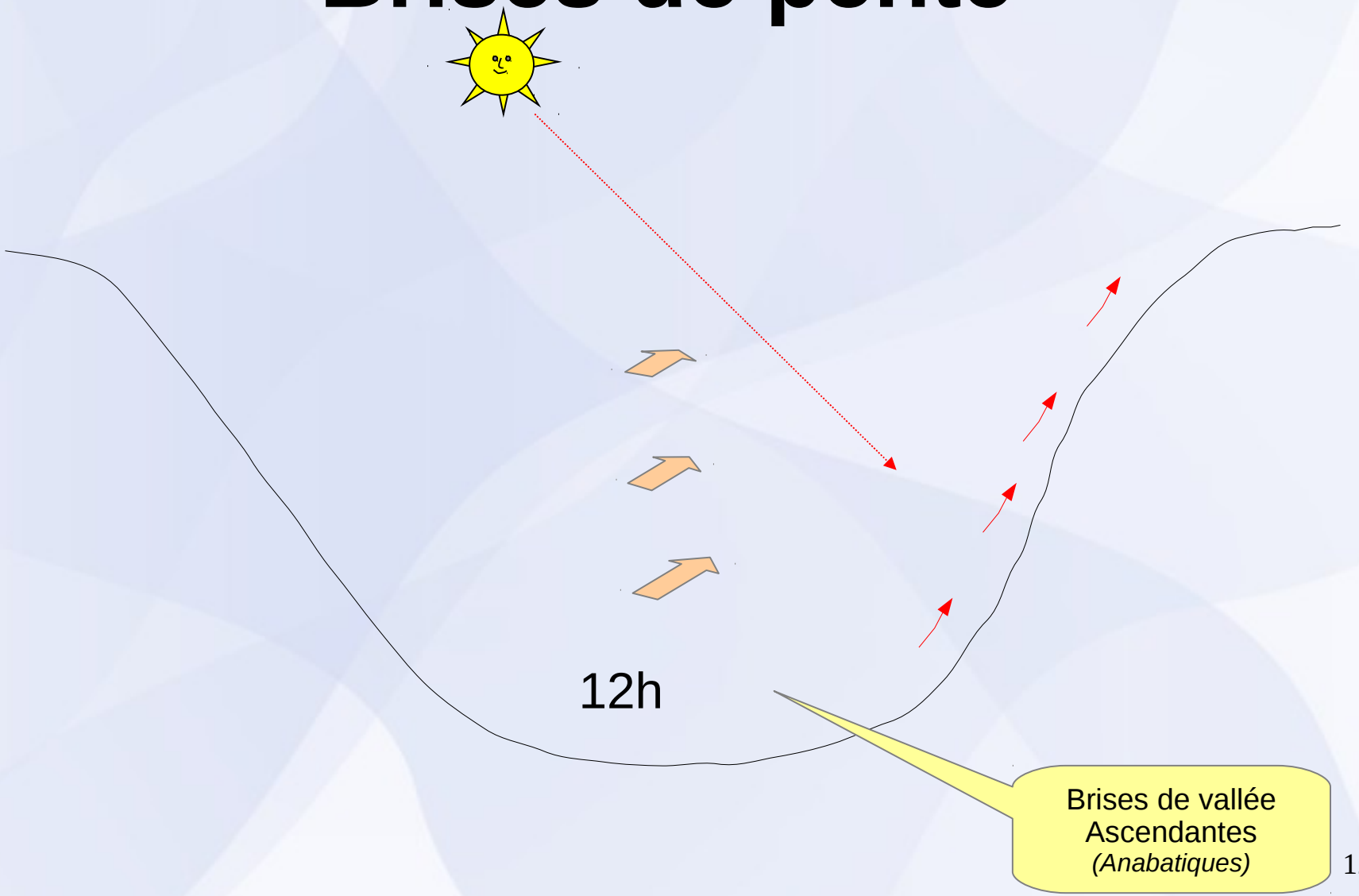
Evolutions au cours de la journée (ensoleillée)



Brises de pente



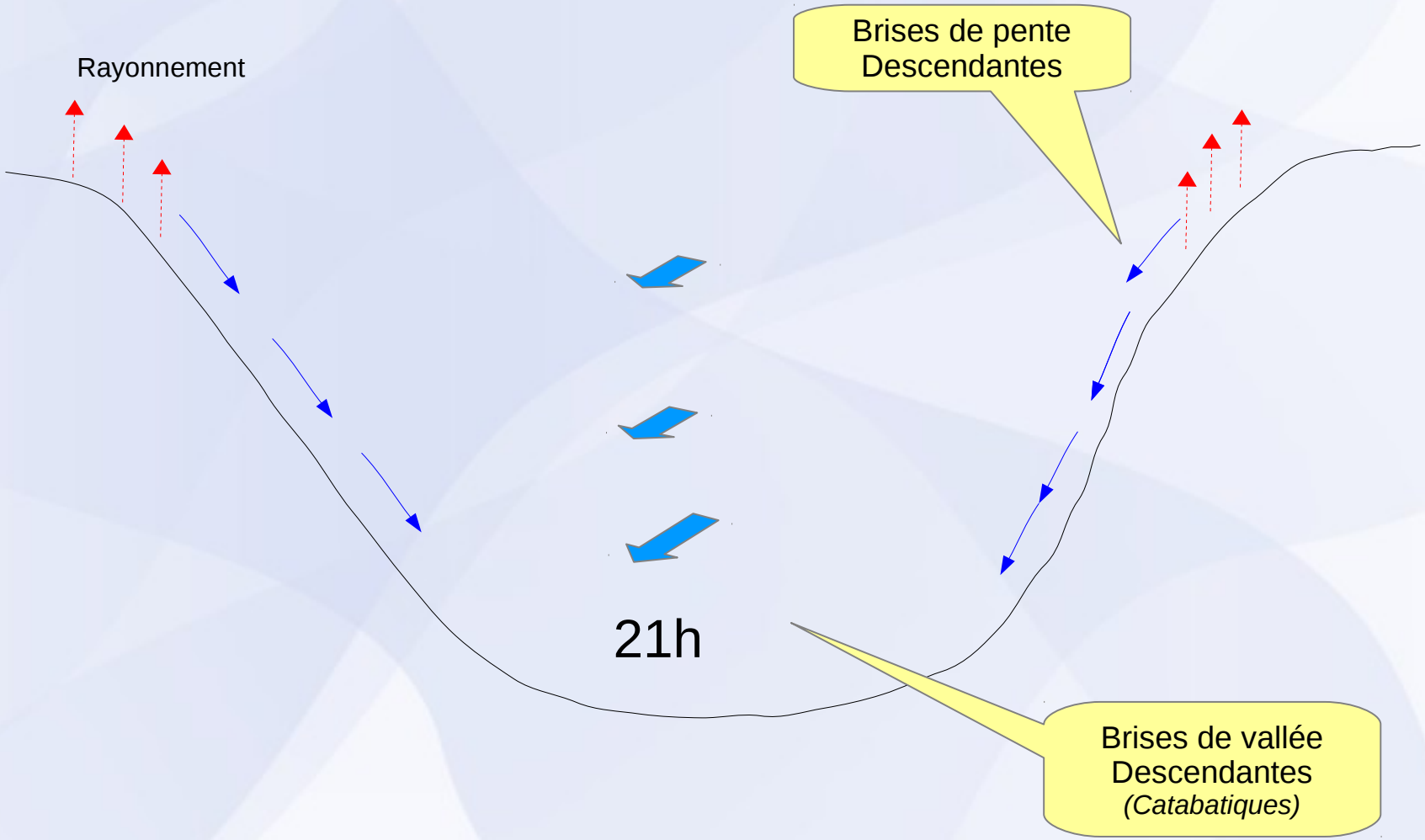
Brises de pente



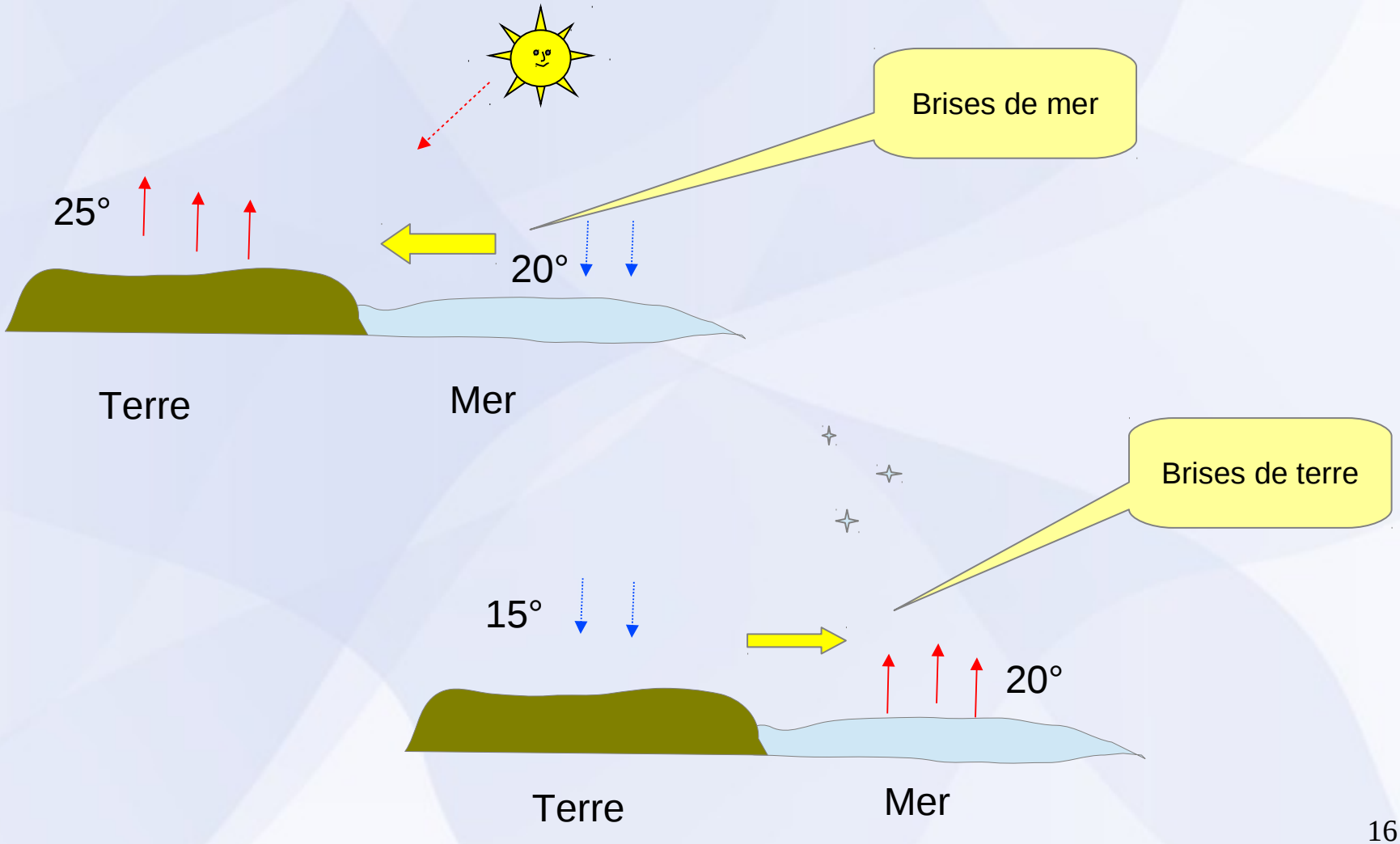
Brises de pente

Brises de pente

Brises de pente

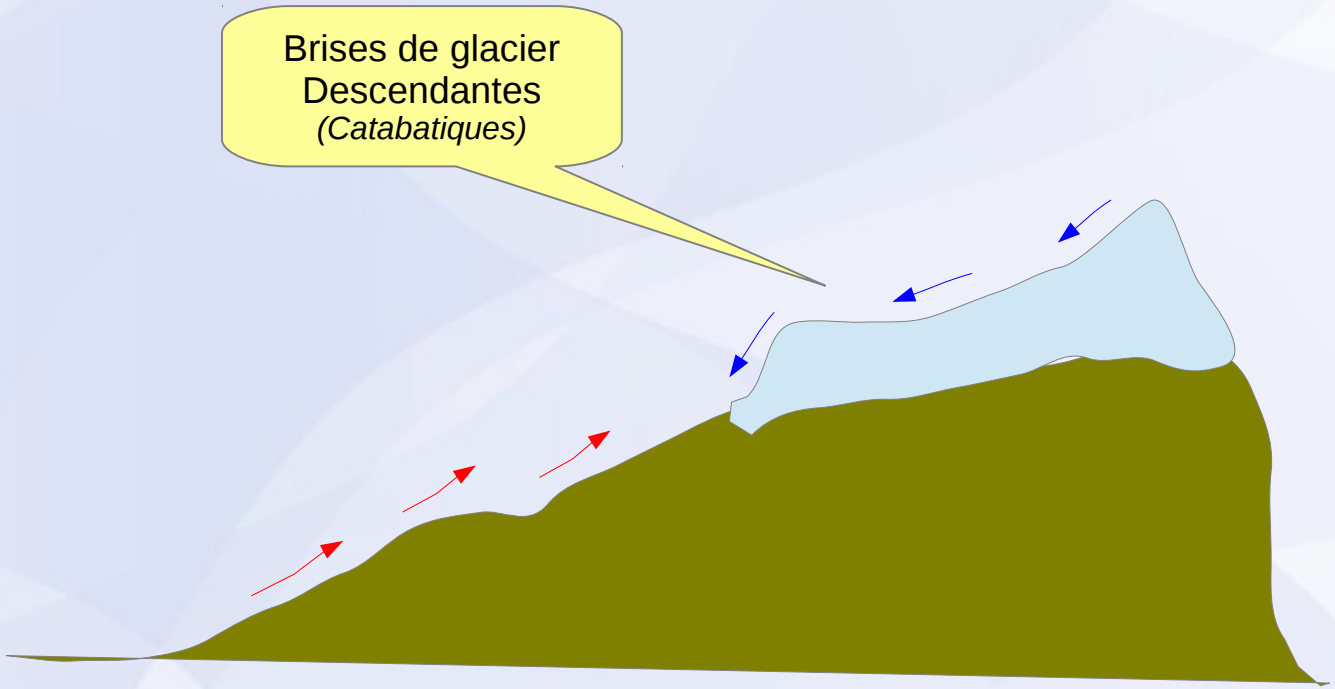


Brises de mer

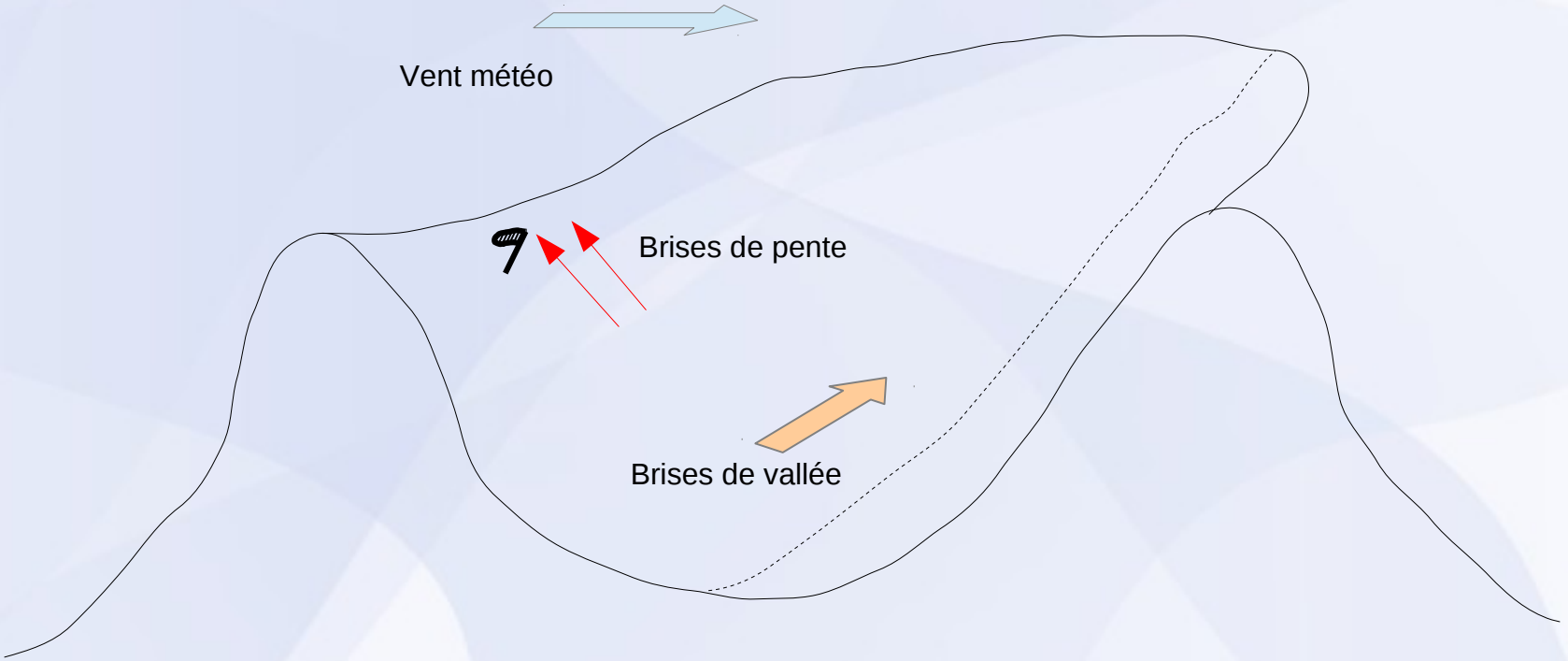


La brise de mer ne dépend pas de la marée

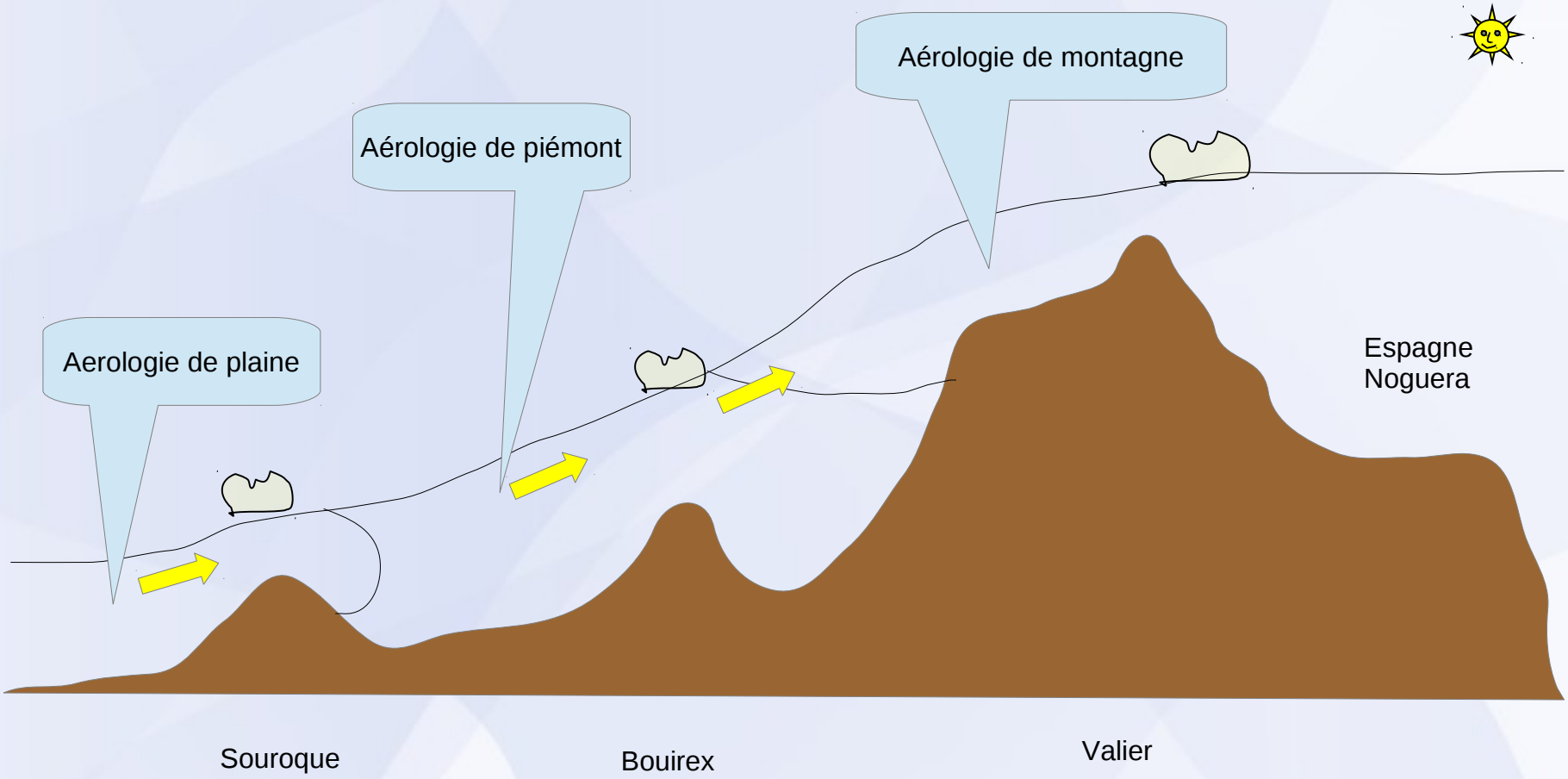
Brises de pente



De quel vent parle-t-on ?



Echange Plaine-Montagne



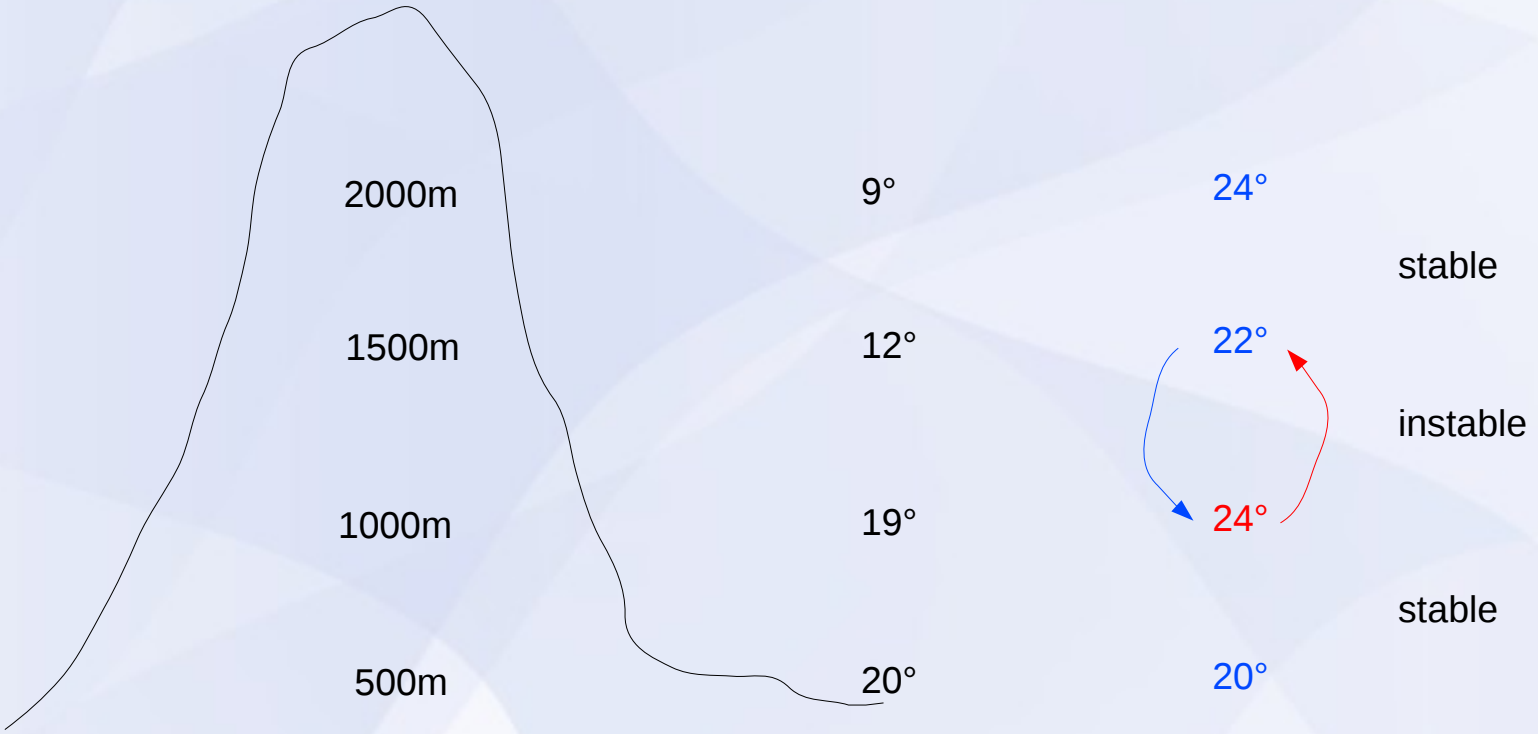
Stabilité - Instabilité

On dit que la chaleur monte ?

Température ramenée à la même altitude (-10°/km)

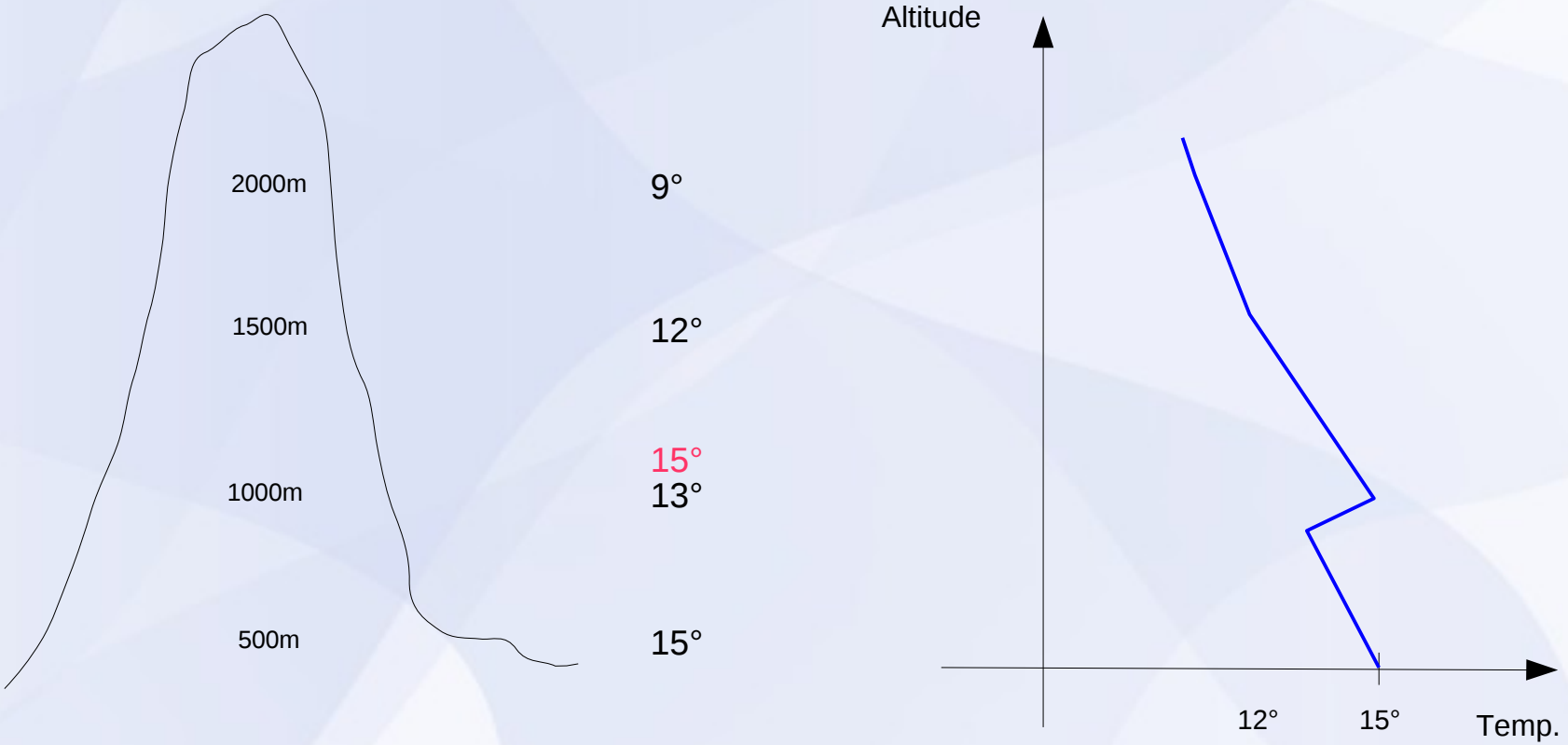
Stabilité - Instabilité

Stable ou instable ?



Couche d'inversion

La température s'inverse



Origine des couches d'inversion : le rayonnement nocturne, les masses d'air, les anticyclones