



# Meteorologia e Clima

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## METEOROLOGIA E CLIMA

**MERCOLEDÌ 26 OTTOBRE 2022**

L'Uomo, il Tempo e il Clima. Quanto è complessa l'atmosfera?

**MERCOLEDÌ 9 NOVEMBRE 2022**

Le nubi e i fenomeni atmosferici: pioggia, fenomeni estremi e "bombe d'acqua".

**MERCOLEDÌ 23 NOVEMBRE 2022**

Osservare il tempo: la rete delle stazioni meteo dal Rinascimento a oggi.

**MERCOLEDÌ 7 DICEMBRE 2022**

Osservare il tempo dallo spazio: l'avventura dei satelliti meteorologici.

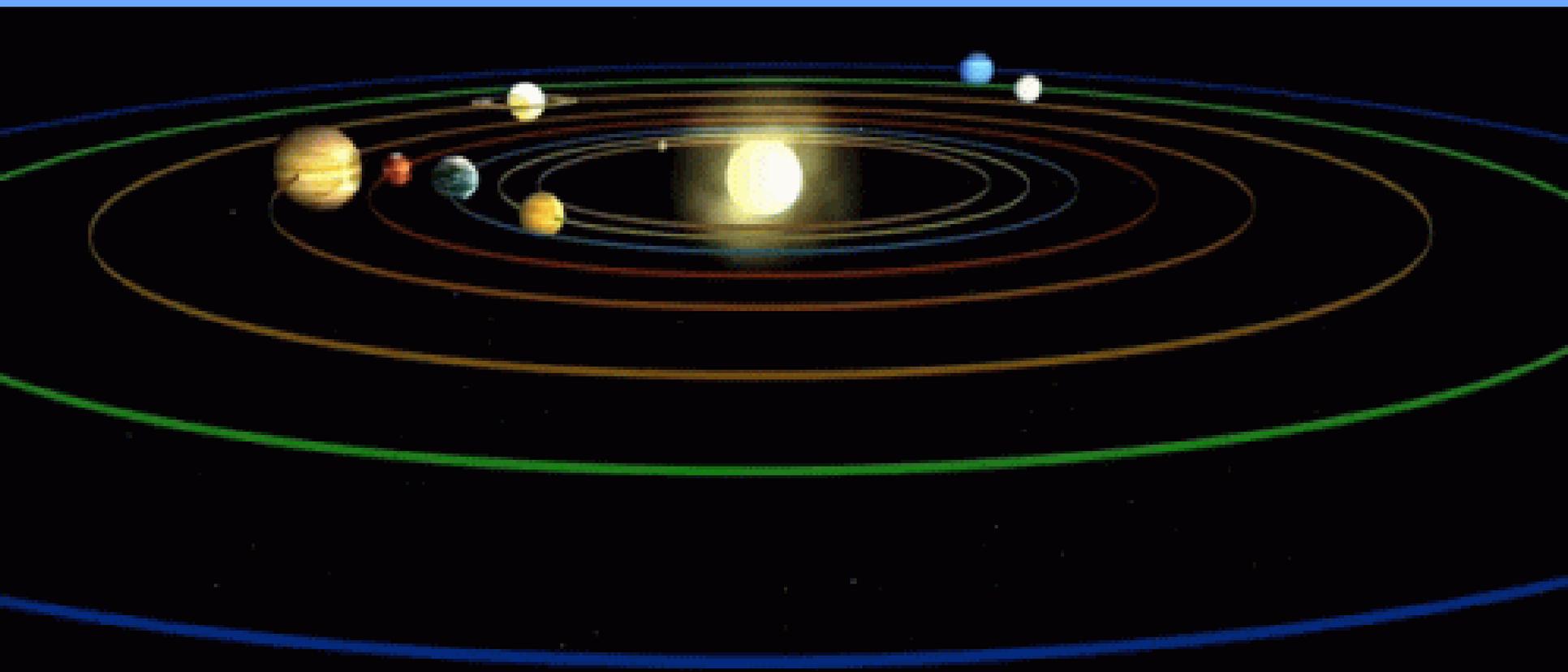
**MERCOLEDÌ 11 GENNAIO 2023**

Prevedere il Tempo. Passato, presente e futuro: magia o scienza?

**MERCOLEDÌ 25 GENNAIO 2023**

Comunicare il tempo: dal Colonnello Bernacca alle app dei telefonini.

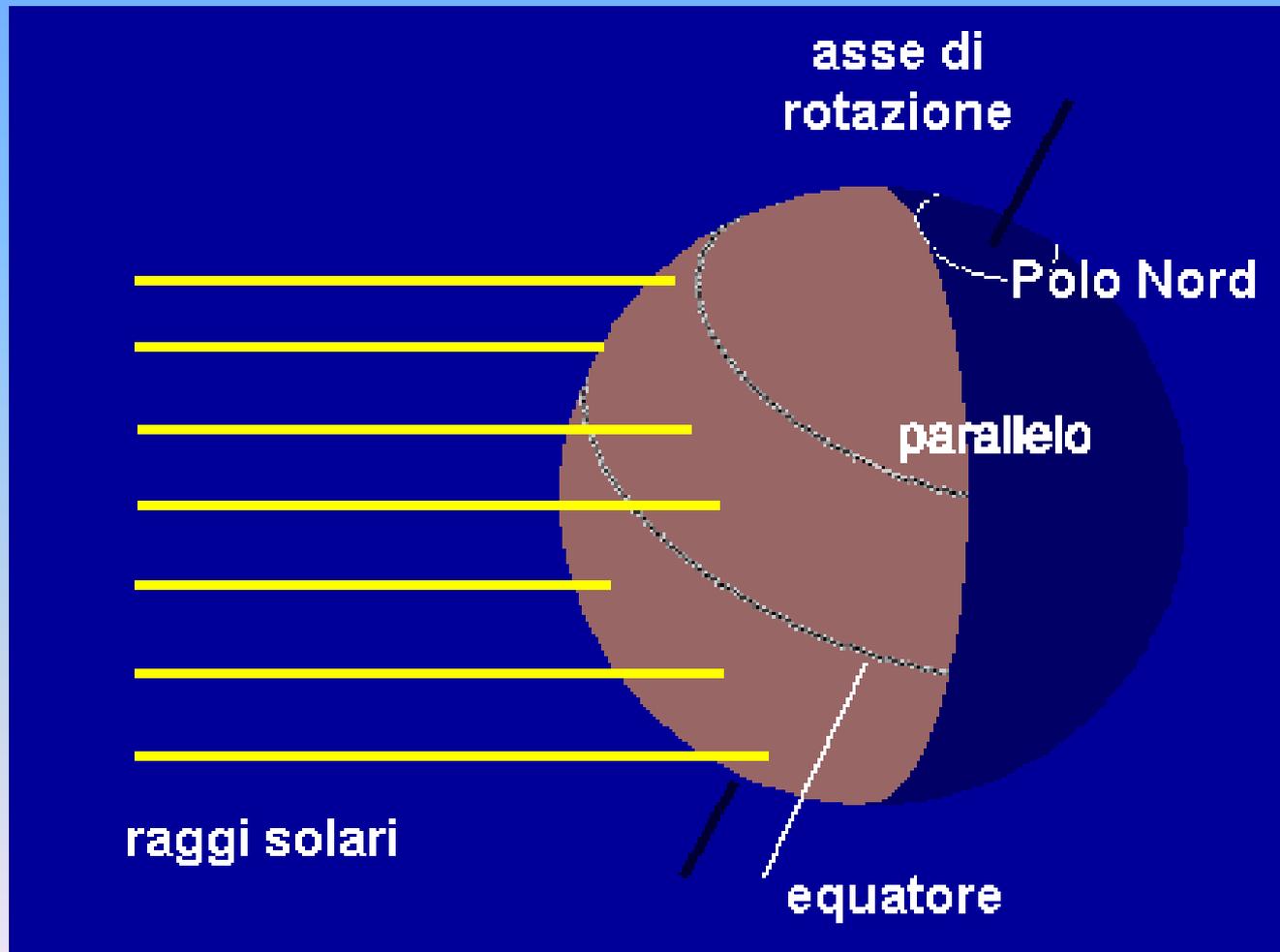




The Solar System

XRecorder

# Circolazione generale Atmosfera



## **Equatore**

**Area del raggio solare 1 m<sup>2</sup>**



**30° N**

**Energia 87% di quella Equatore**



**60° N**

**Energia 50% di quella Equatore**



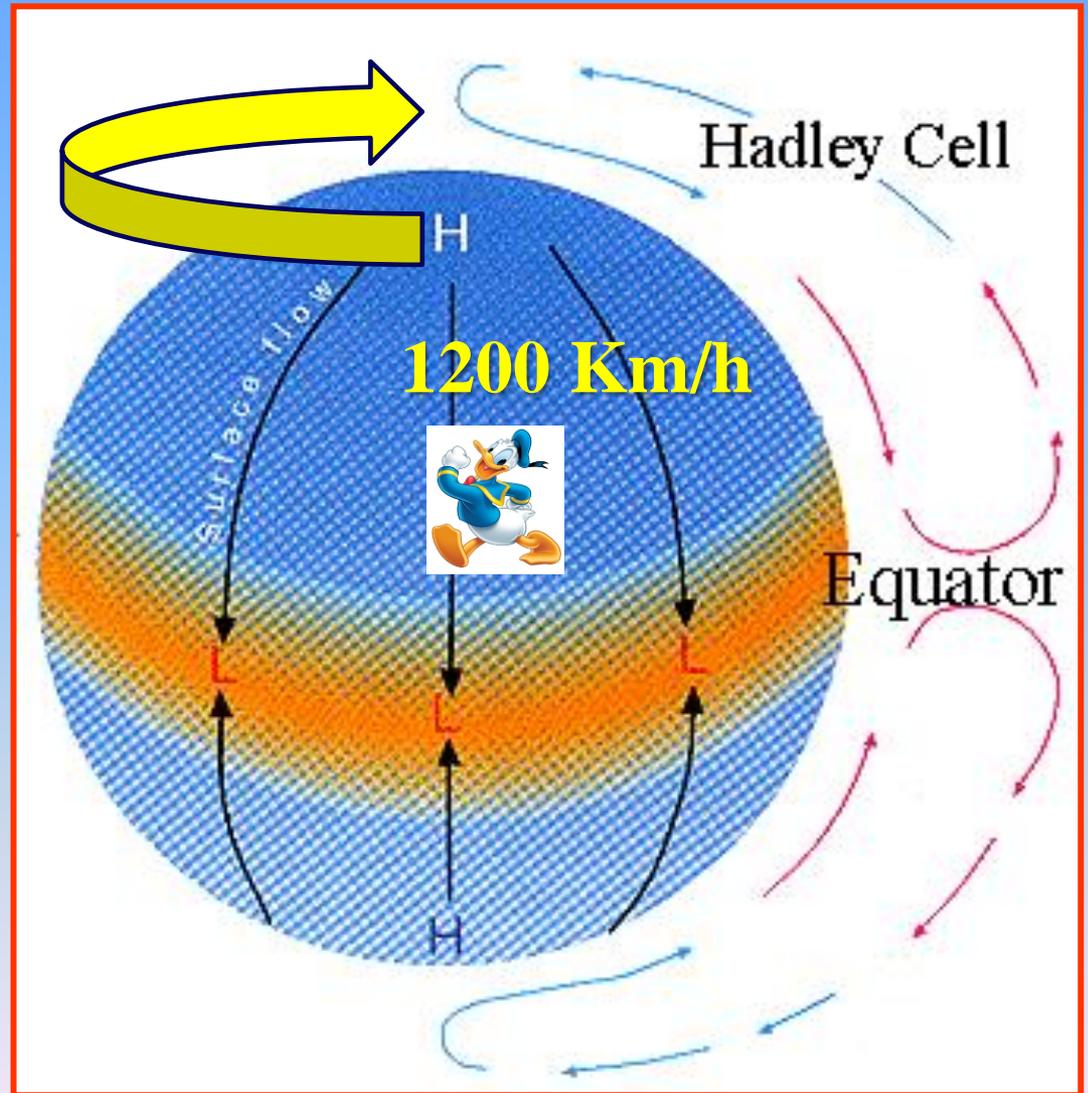
# Circolazione generale

Hadley 1735,  
Ferrel 1850

Senza rotazione  
terrestre

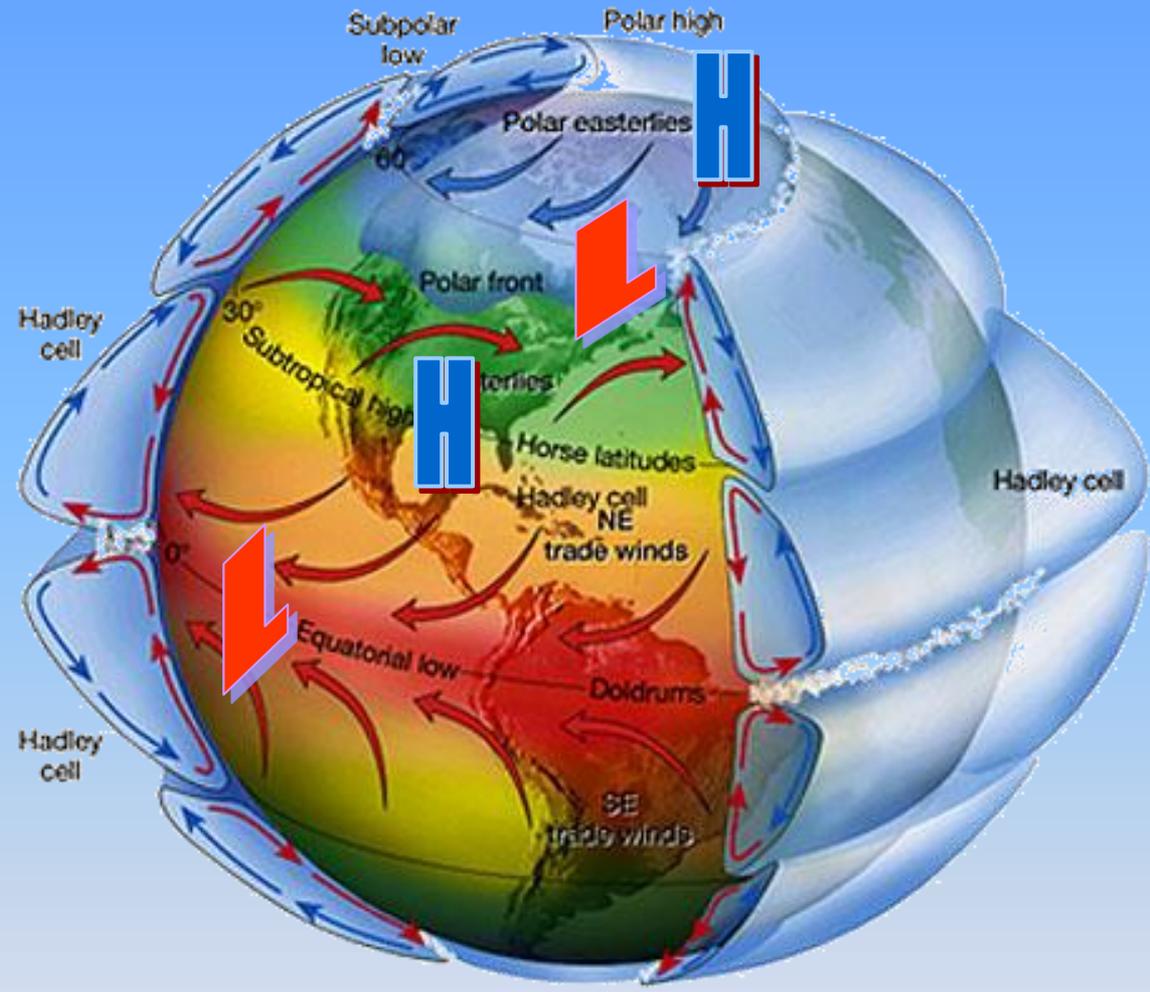
.....

**Ma la Terra ruota!**

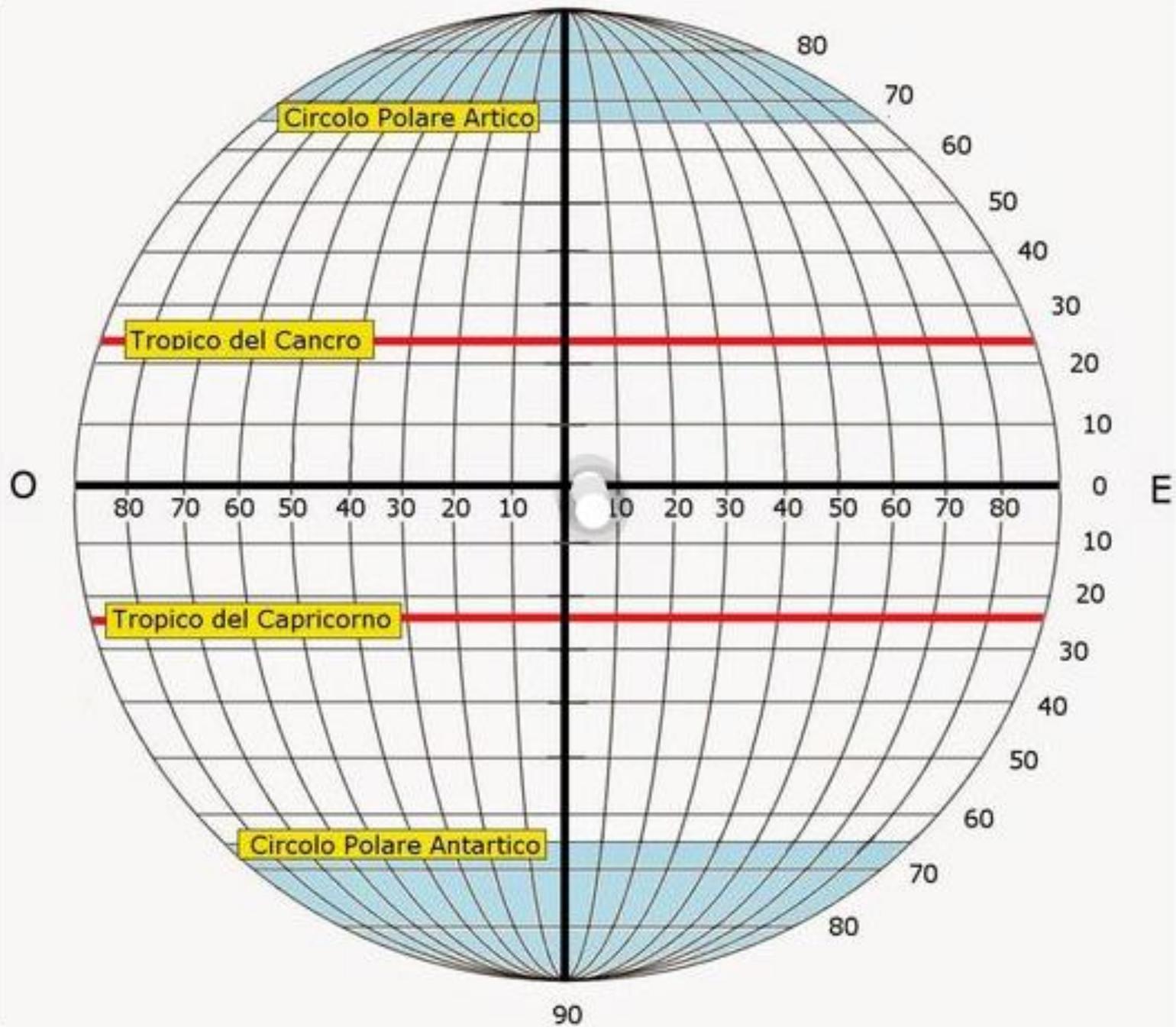


# La forza deviante

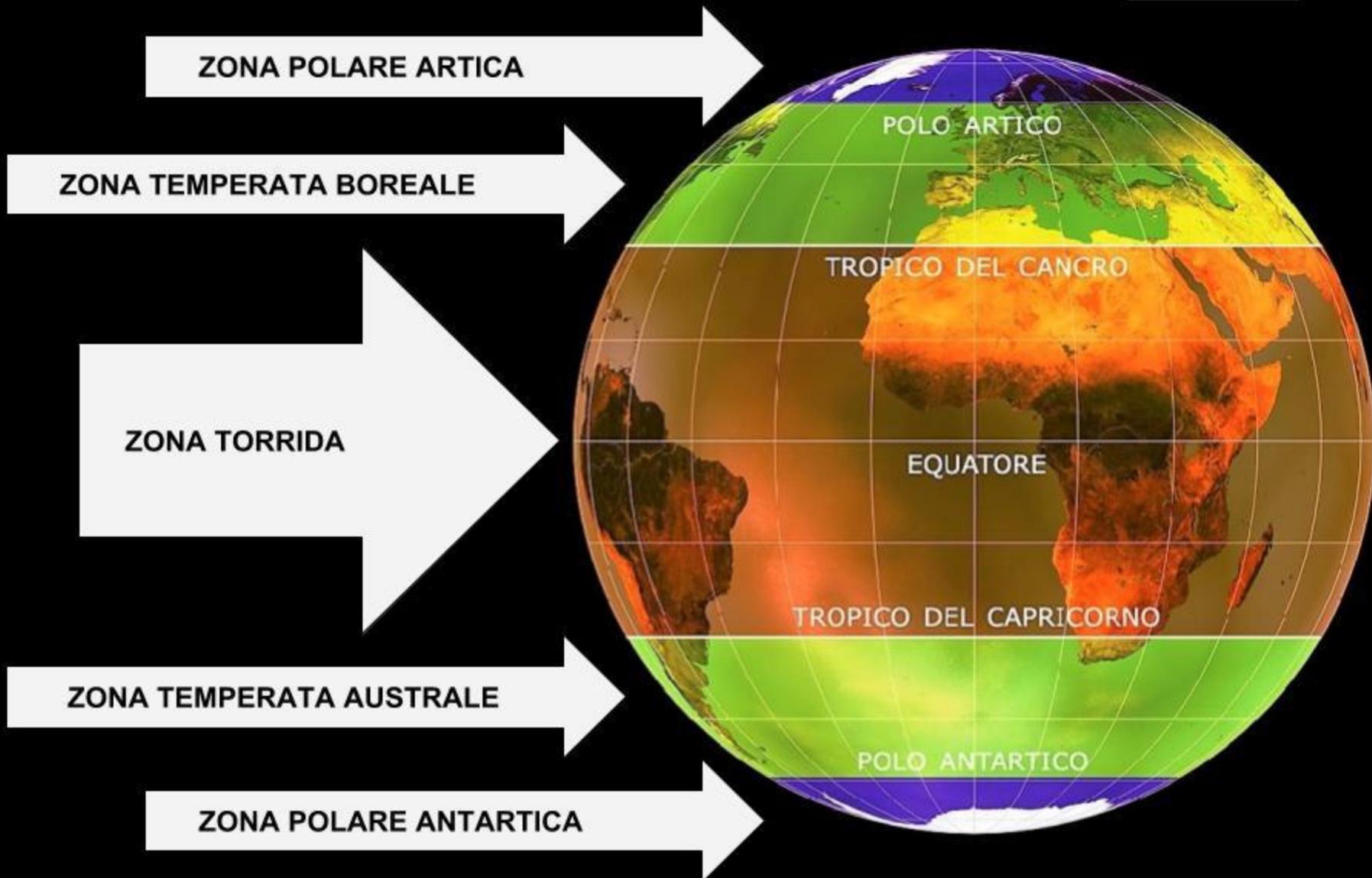




**La rotta di Colombo !!!!**

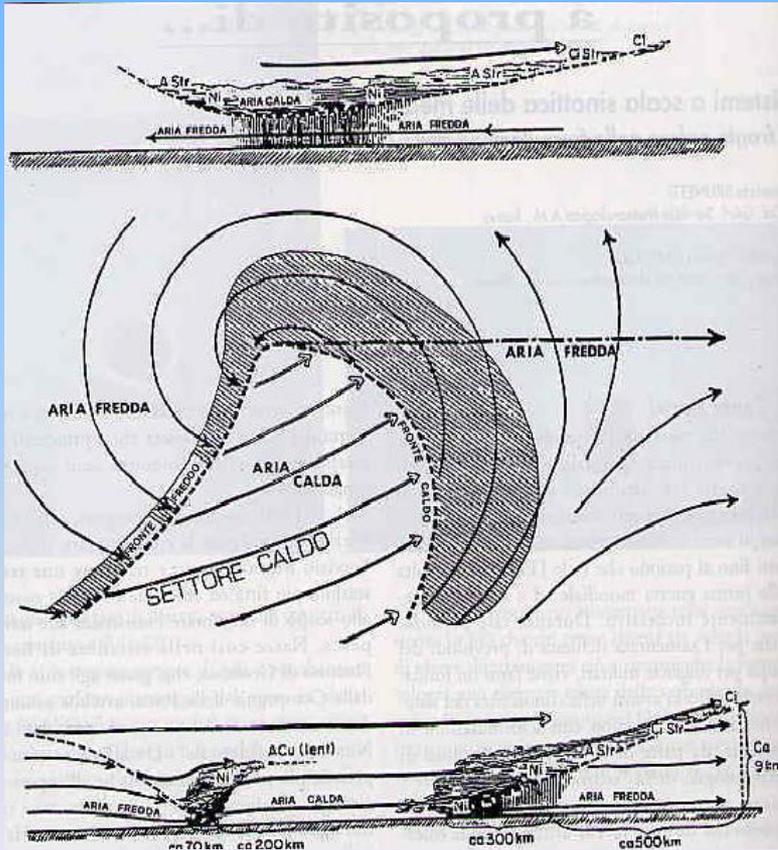






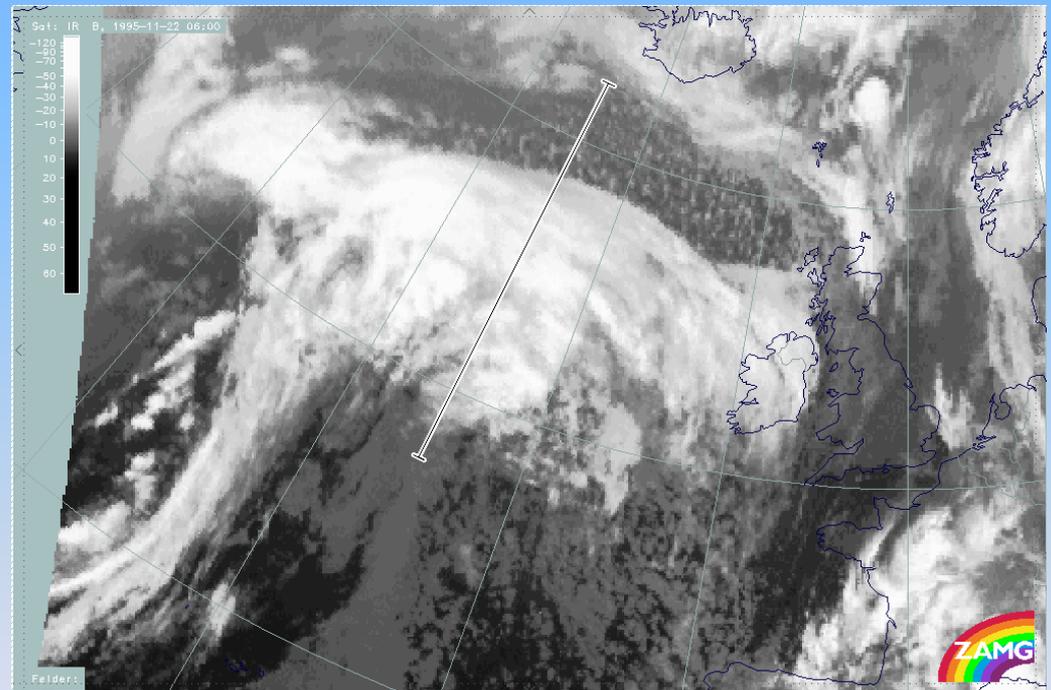
# Il Fronte Freddo / Caldo

## Anni '20



# IMMAGINE METEOSAT

## Anni 2000

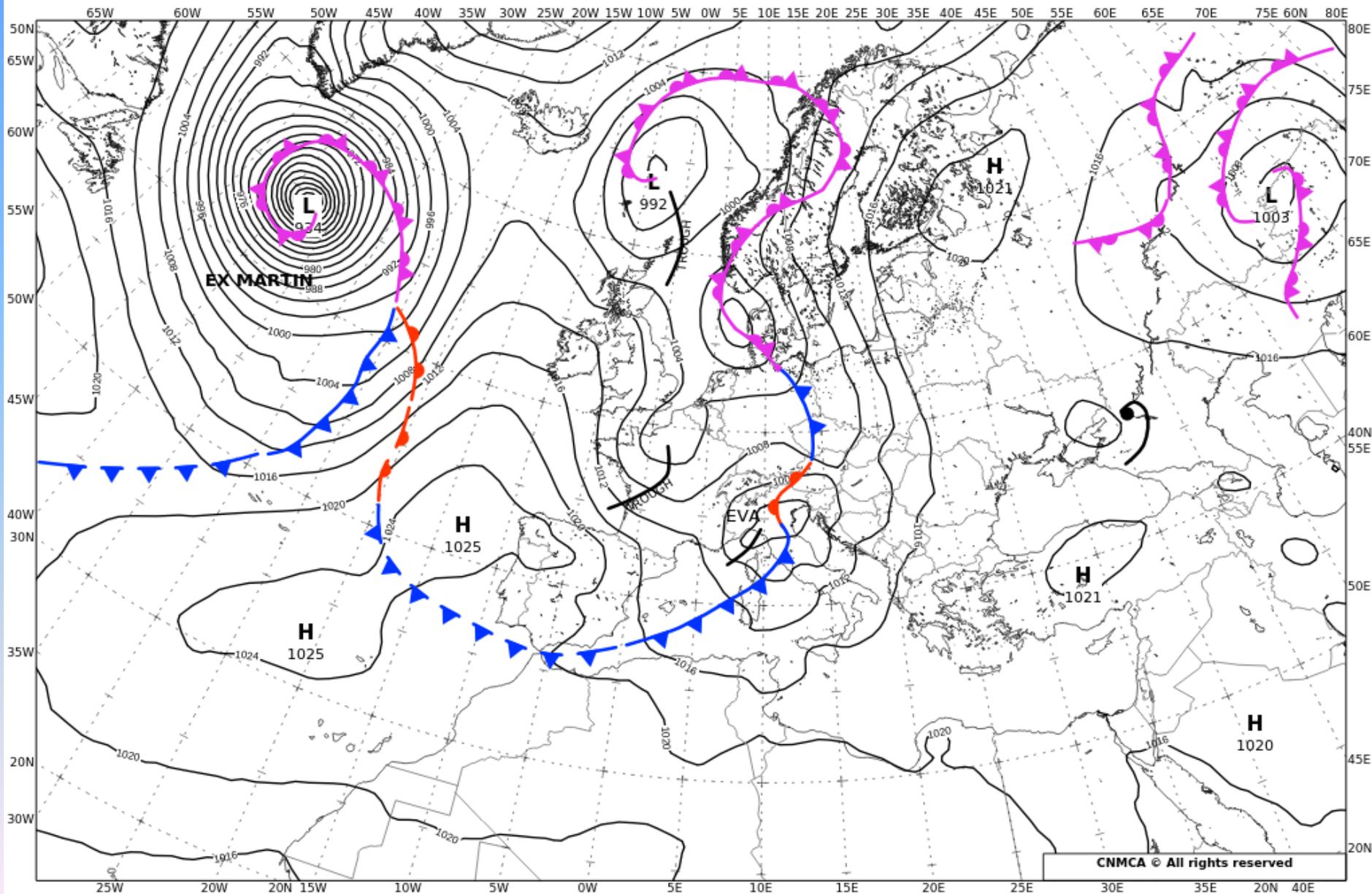


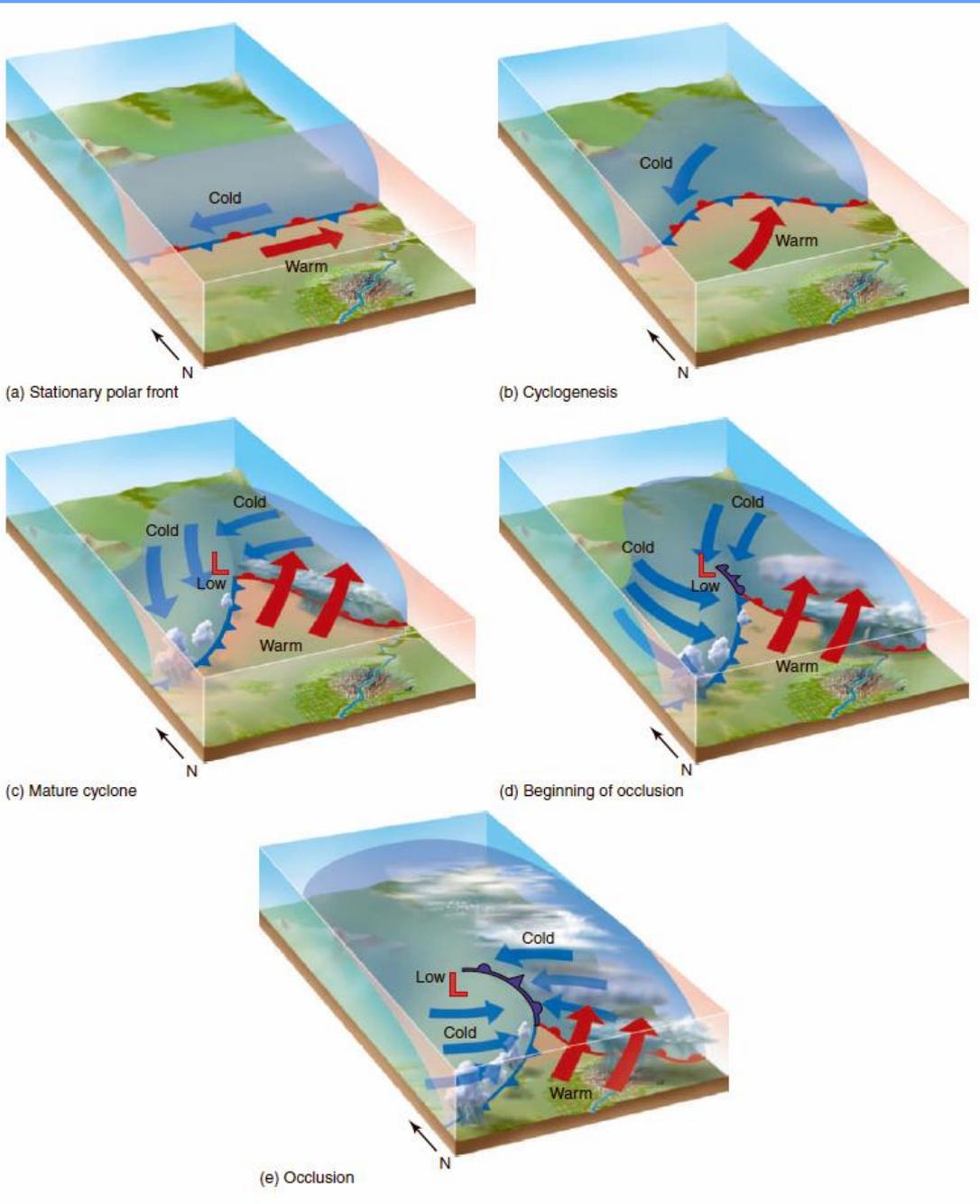


# Analysis Chart

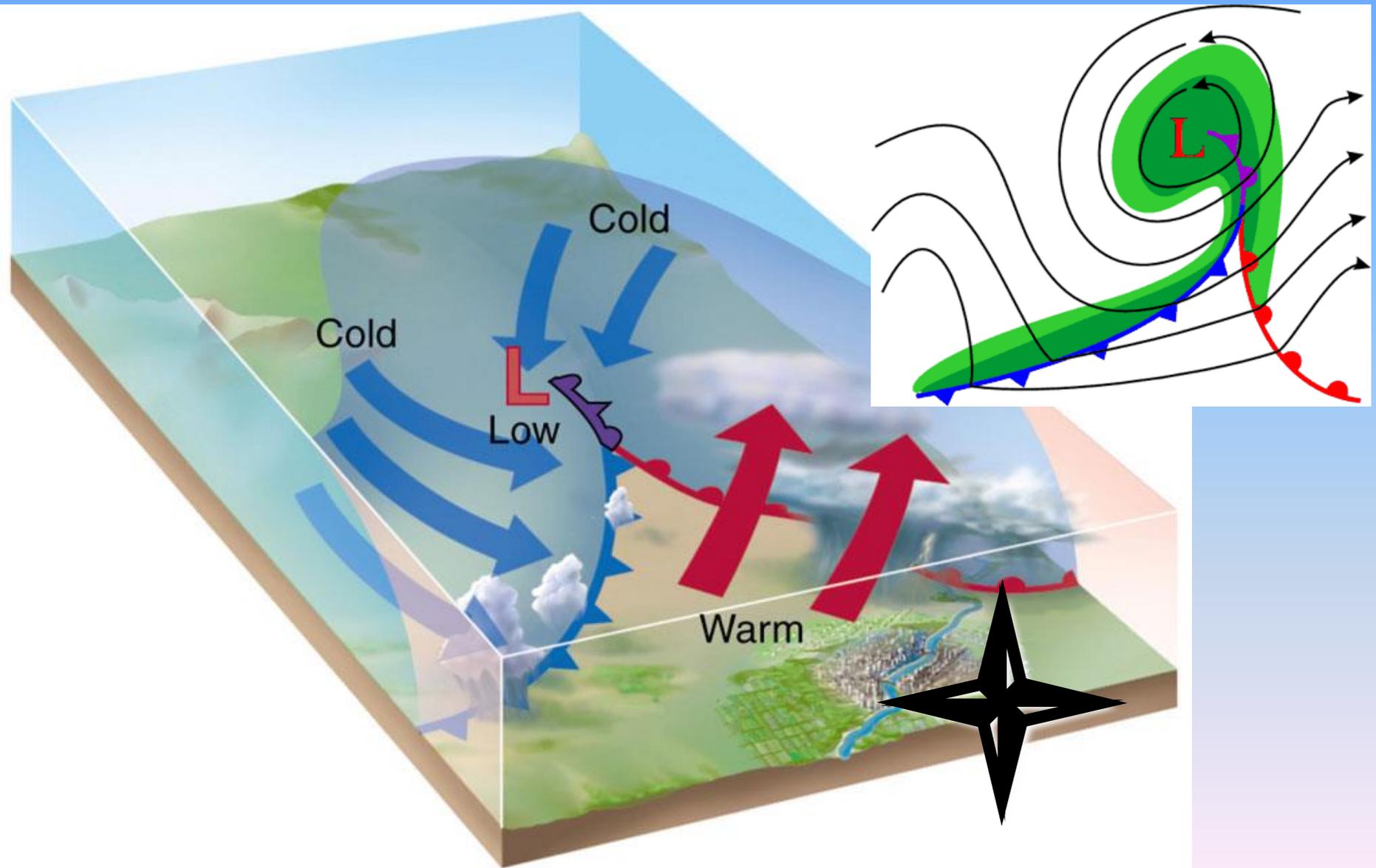
## Mean Sea Level Pressure (hPa) with Fronts

### VT 0600 UTC 04-11-2022





# La Teoria del Fronte Polare

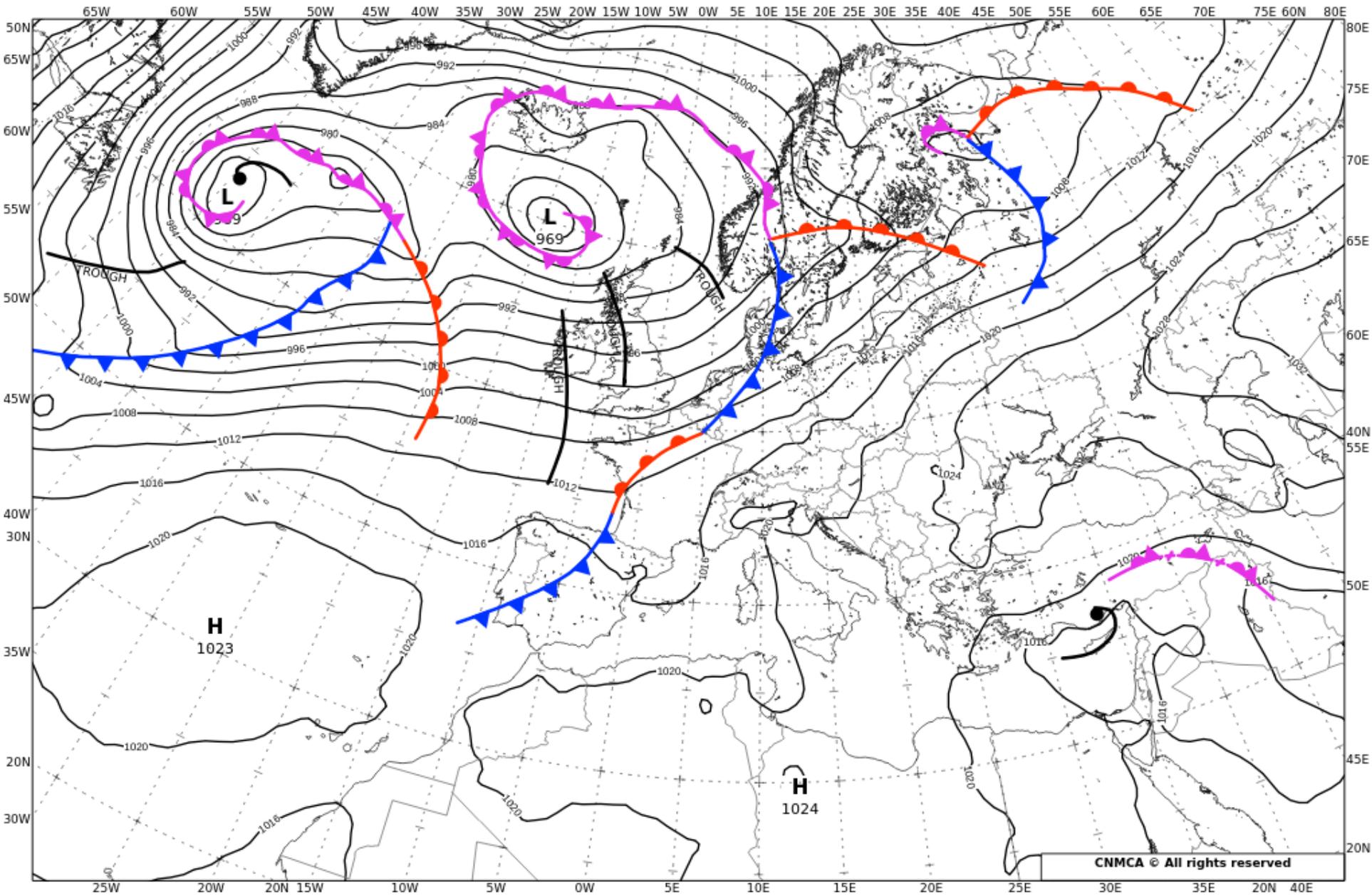




# Analysis Chart

## Mean Sea Level Pressure (hPa) with Fronts

### VT 0600 UTC 09-11-2022



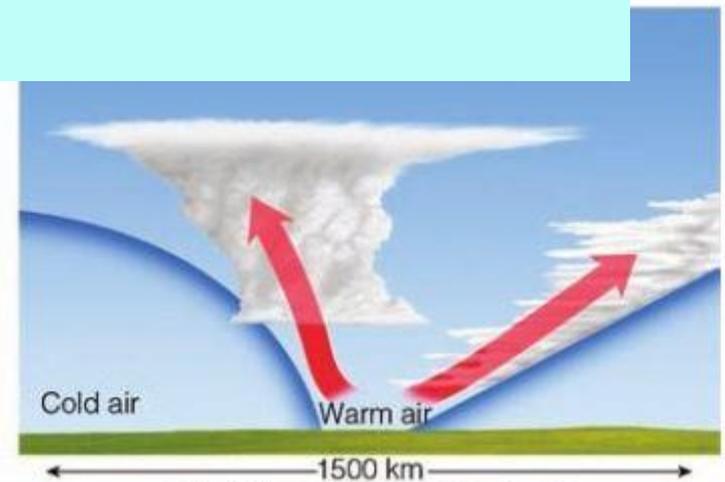
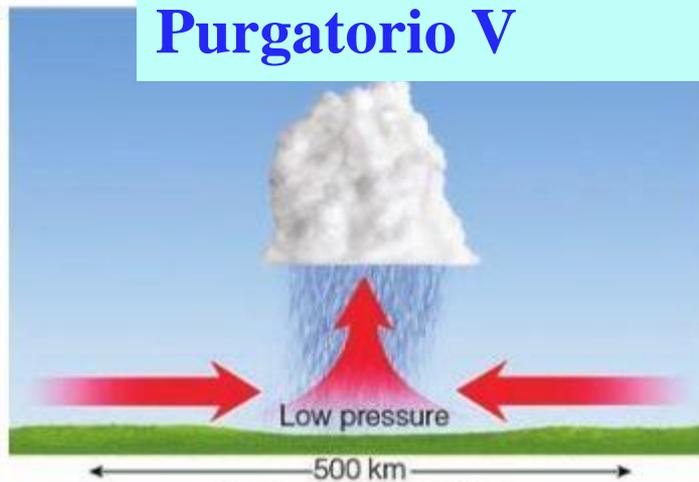
# Le nubi



# Ingredienti

Umidità

Salita e raffreddamento



# Classificazione

## Tipologia

•Cumuliformi



•Stratiformi



•Cirriformi

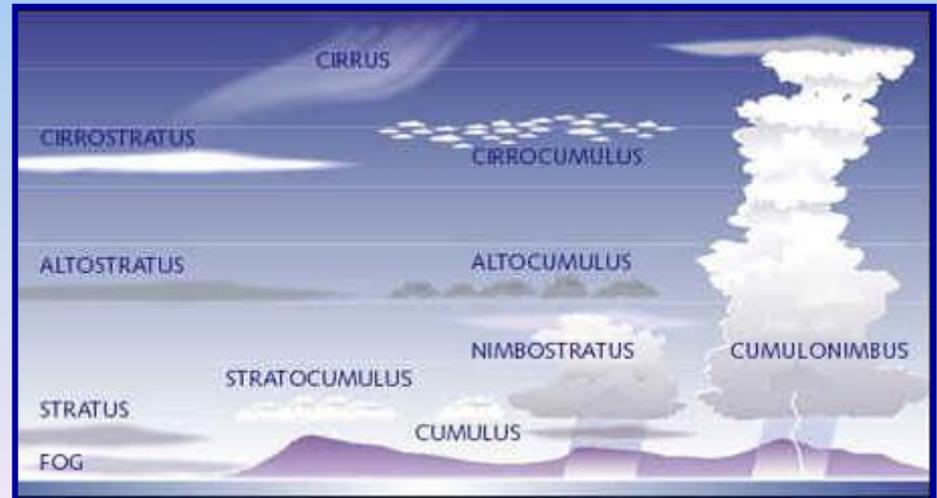


## Altezza

•Alte

•Medie

•Basse





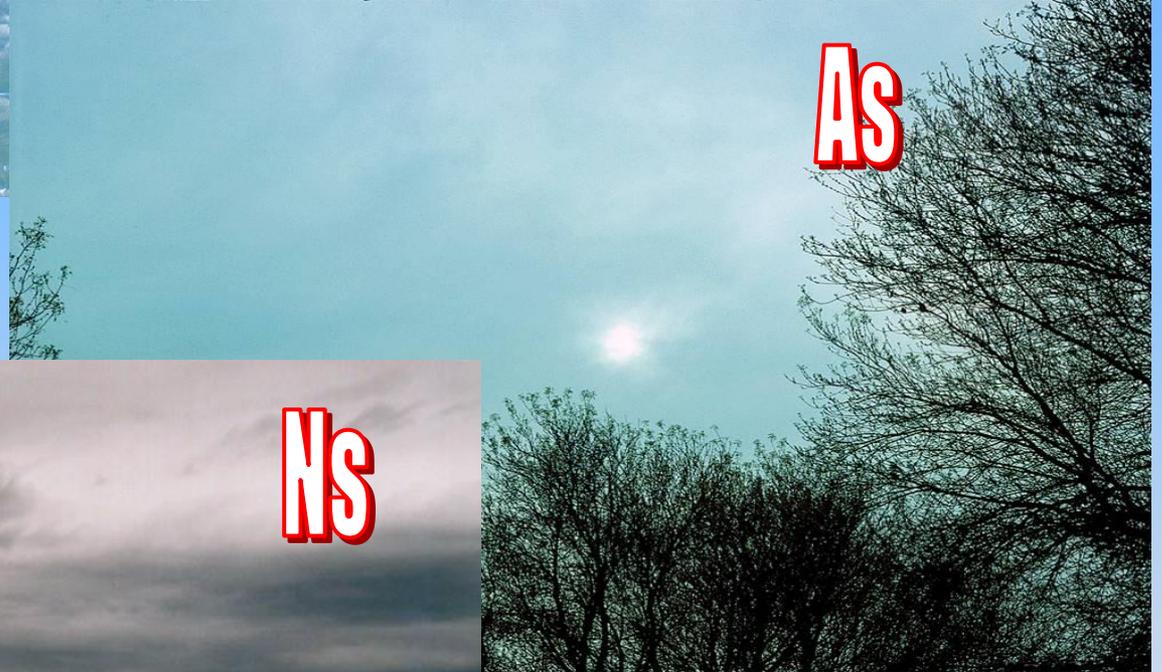
**Ci**



**Cs**



**Cc**



Sc



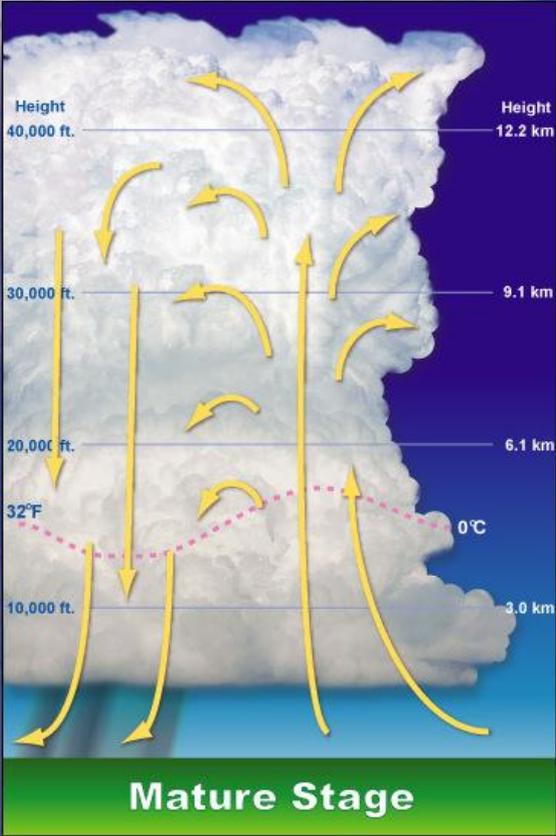
Cu



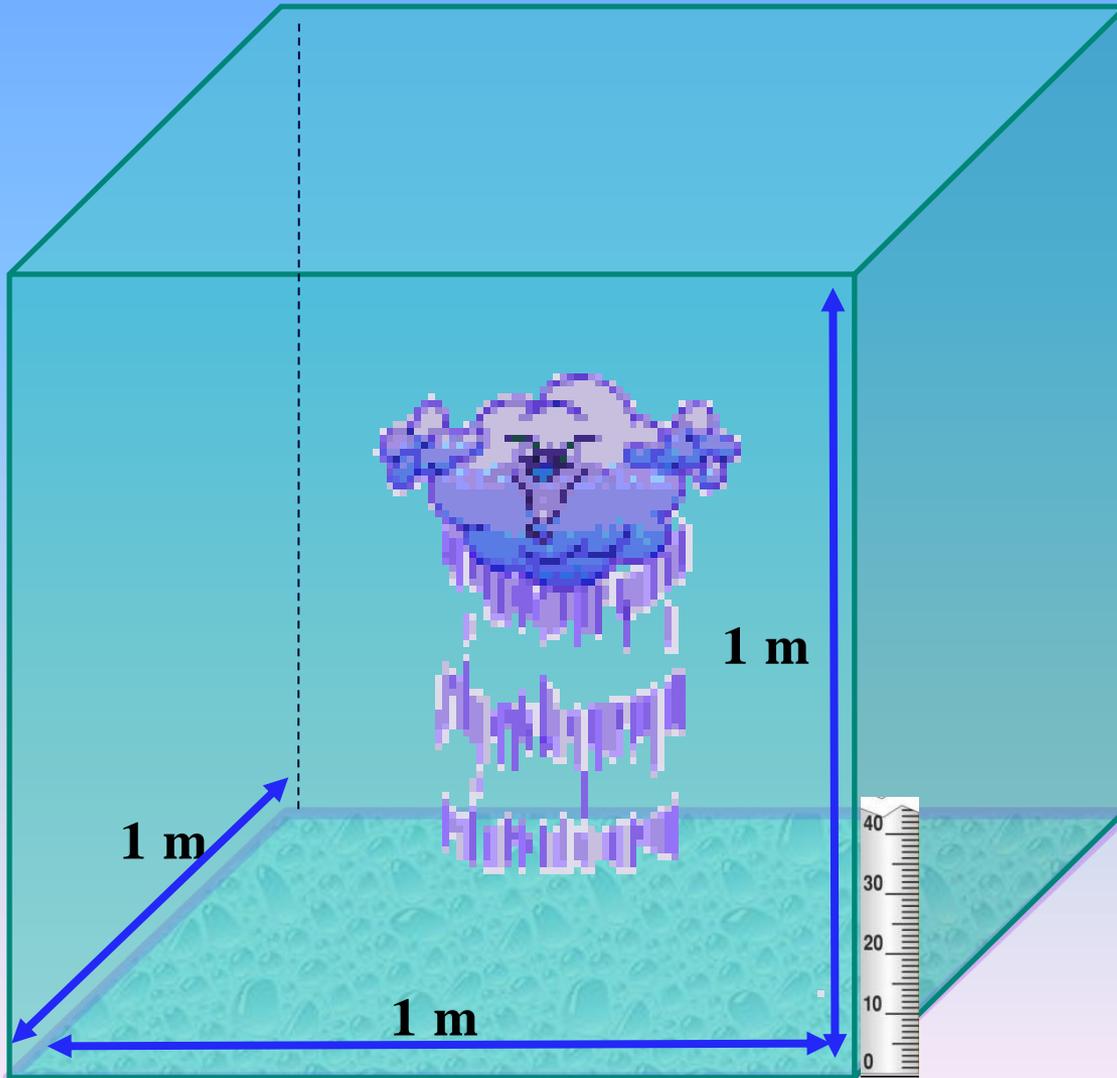
St



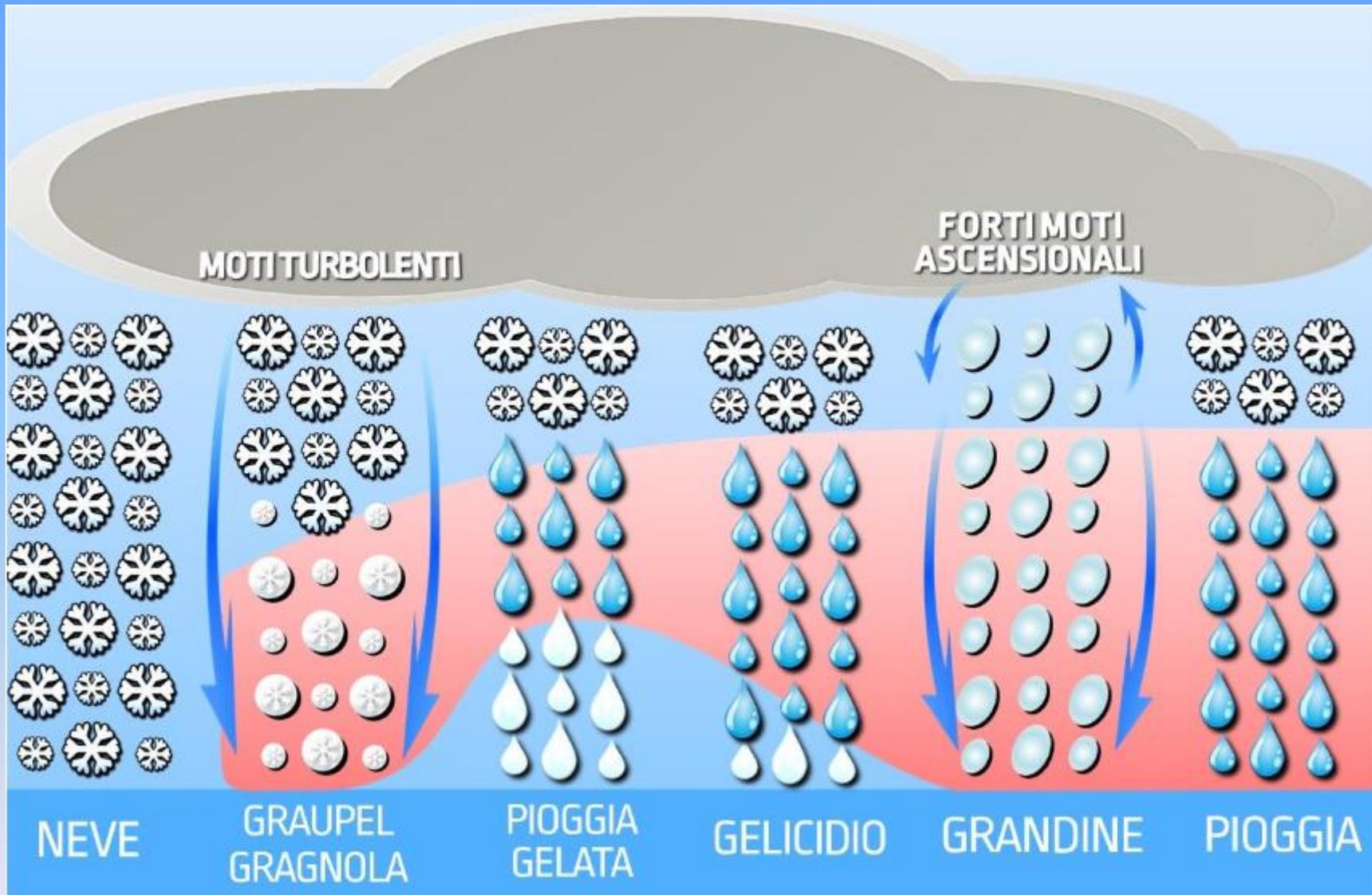
# Cb



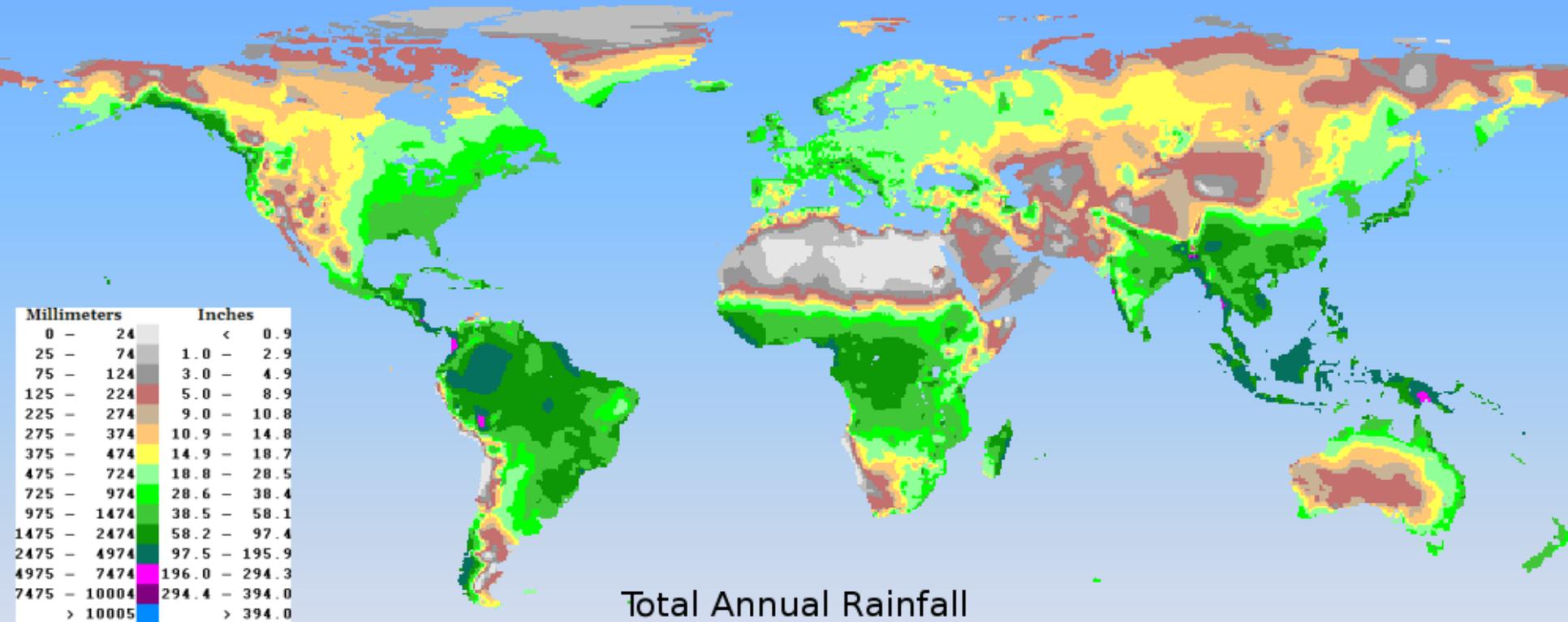
# La precipitazione



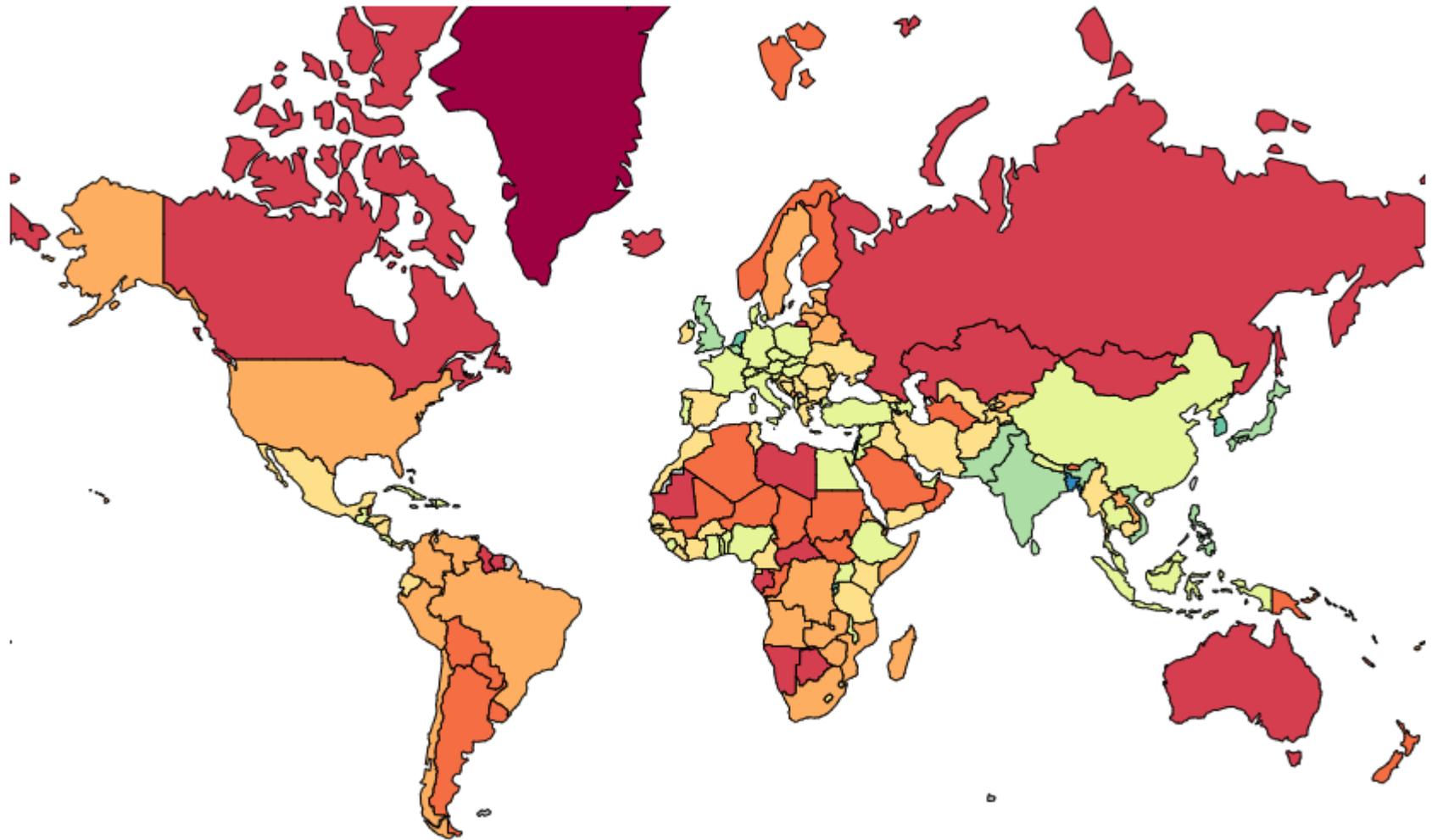
**1 mm pioggia =  
1 litro per m<sup>2</sup>**



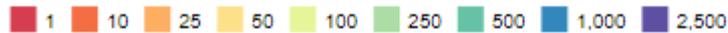
# Pioggia media annuale



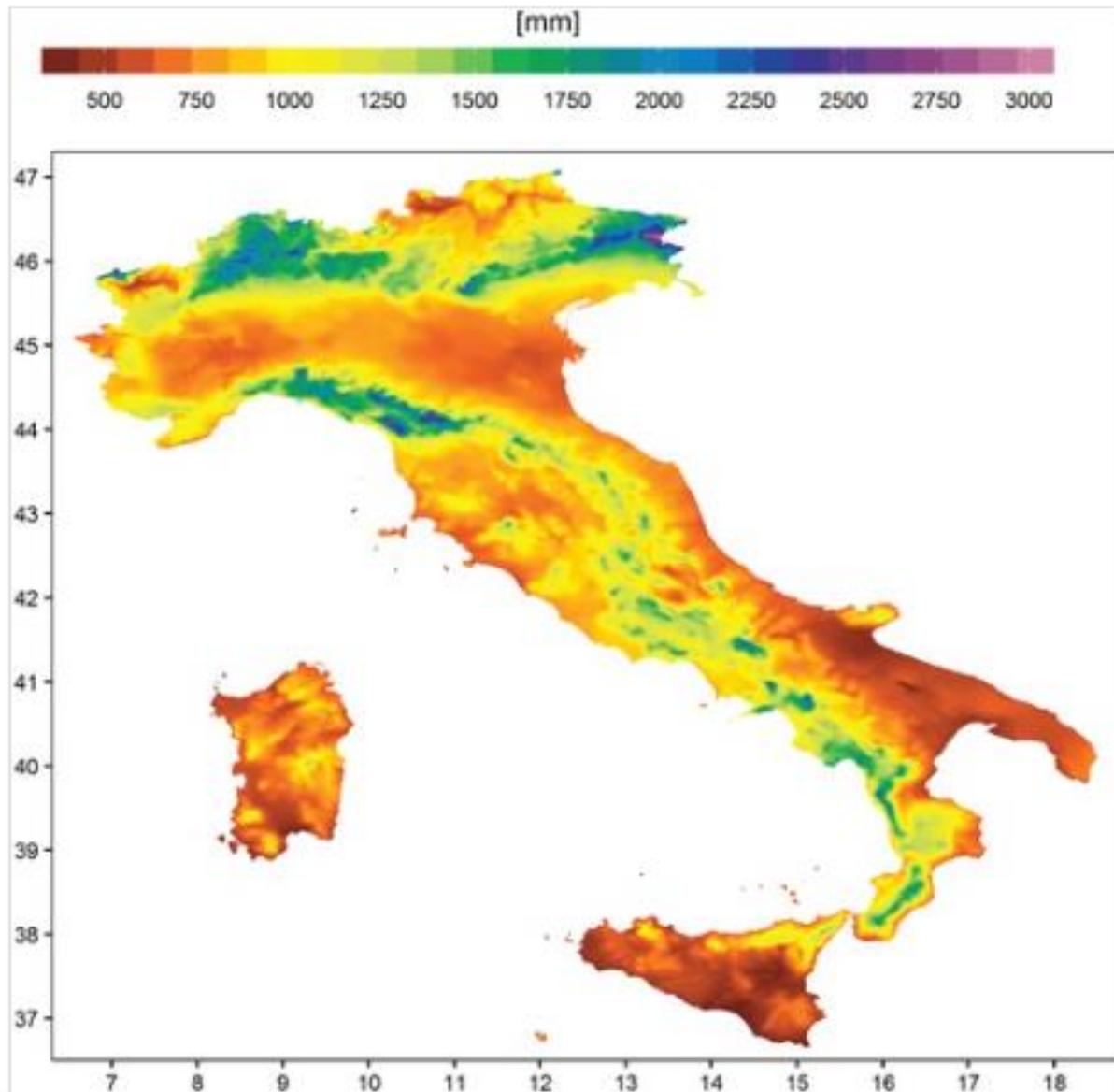
# Countries by Population Density | Countries by Density 2022



Density

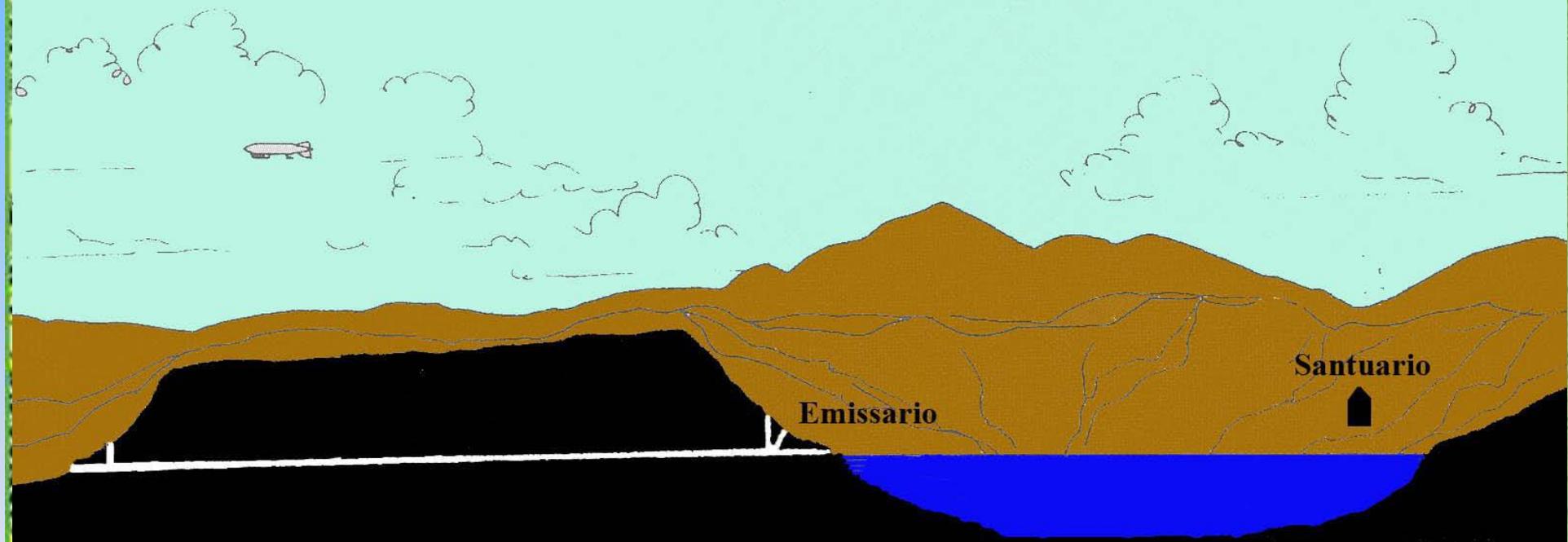


# Pioggia media annuale





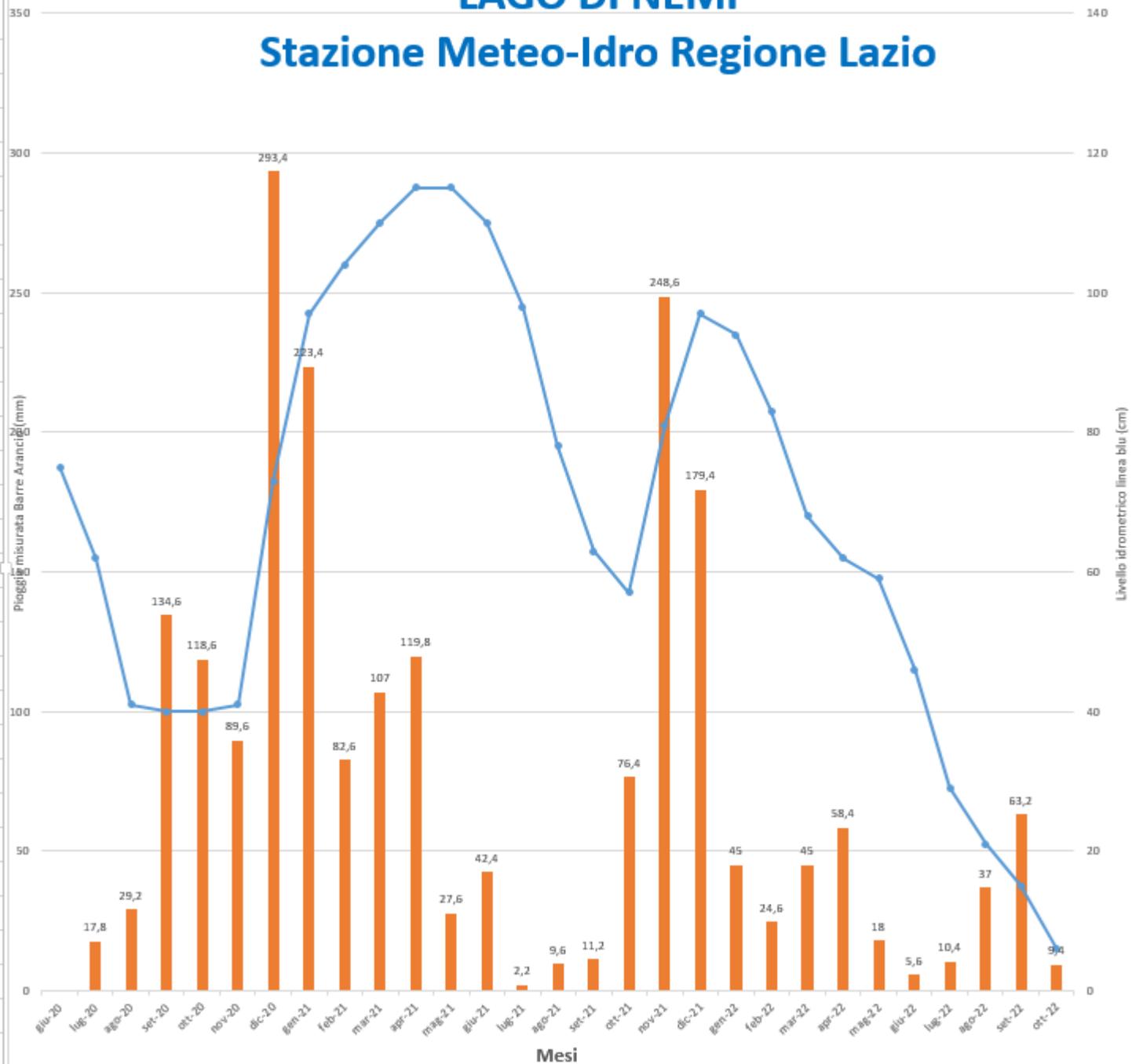
0 1 km



data	livello idro (cm) fine mese	pioggia cumulata mese (mm)	pioggia cumulata anno (mm)
giu-20	75		683,2
lug-20	62	17,8	
ago-20	41	29,2	
set-20	40	134,6	
ott-20	40	118,6	
nov-20	41	89,6	
dic-20	73	293,4	
gen-21	97	223,4	1130,2
feb-21	104	82,6	
mar-21	110	107	
apr-21	115	119,8	
mag-21	115	27,6	
giu-21	110	42,4	
lug-21	98	2,2	
ago-21	78	9,6	
set-21	63	11,2	
ott-21	57	76,4	
nov-21	81	248,6	316,6
dic-21	97	179,4	
gen-22	94	45	
feb-22	83	24,6	
mar-22	68	45	
apr-22	62	58,4	
mag-22	59	18	
giu-22	46	5,6	
lug-22	29	10,4	
ago-22	21	37	
set-22	15	63,2	
ott-22	6	9,4	

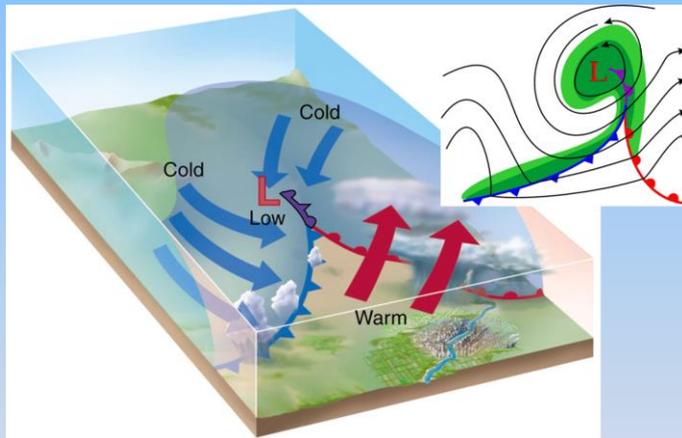
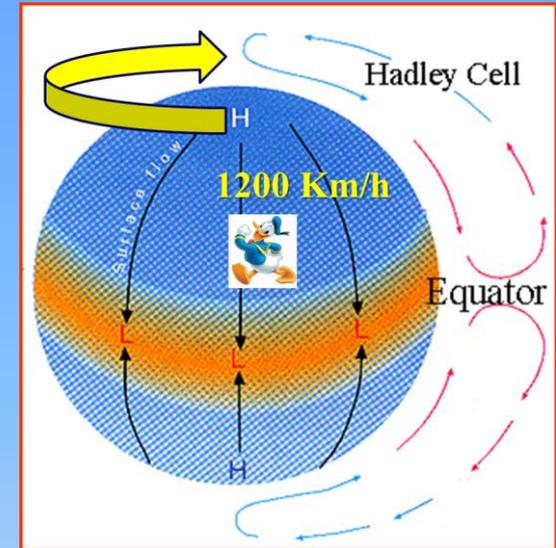
# LAGO DI NEMI

## Stazione Meteo-Idro Regione Lazio



# SINTESI

## CIRCOLAZIONE ATMOSFERA



## I FRONTI ALTE E BASSE PRESSIONI

## NUBI E PRECIPITAZIONI

