



SHAURYA SPARTANS

FOR NDA 2, 2024 ASPIRANTS

Geography

Lecture – 19

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CHAPTER NAME

Cyclone

TOPICS *to be covered*



1

Cyclone

2

3

4



Amount of
water vapour in
air.

Hygrometer

Humidity

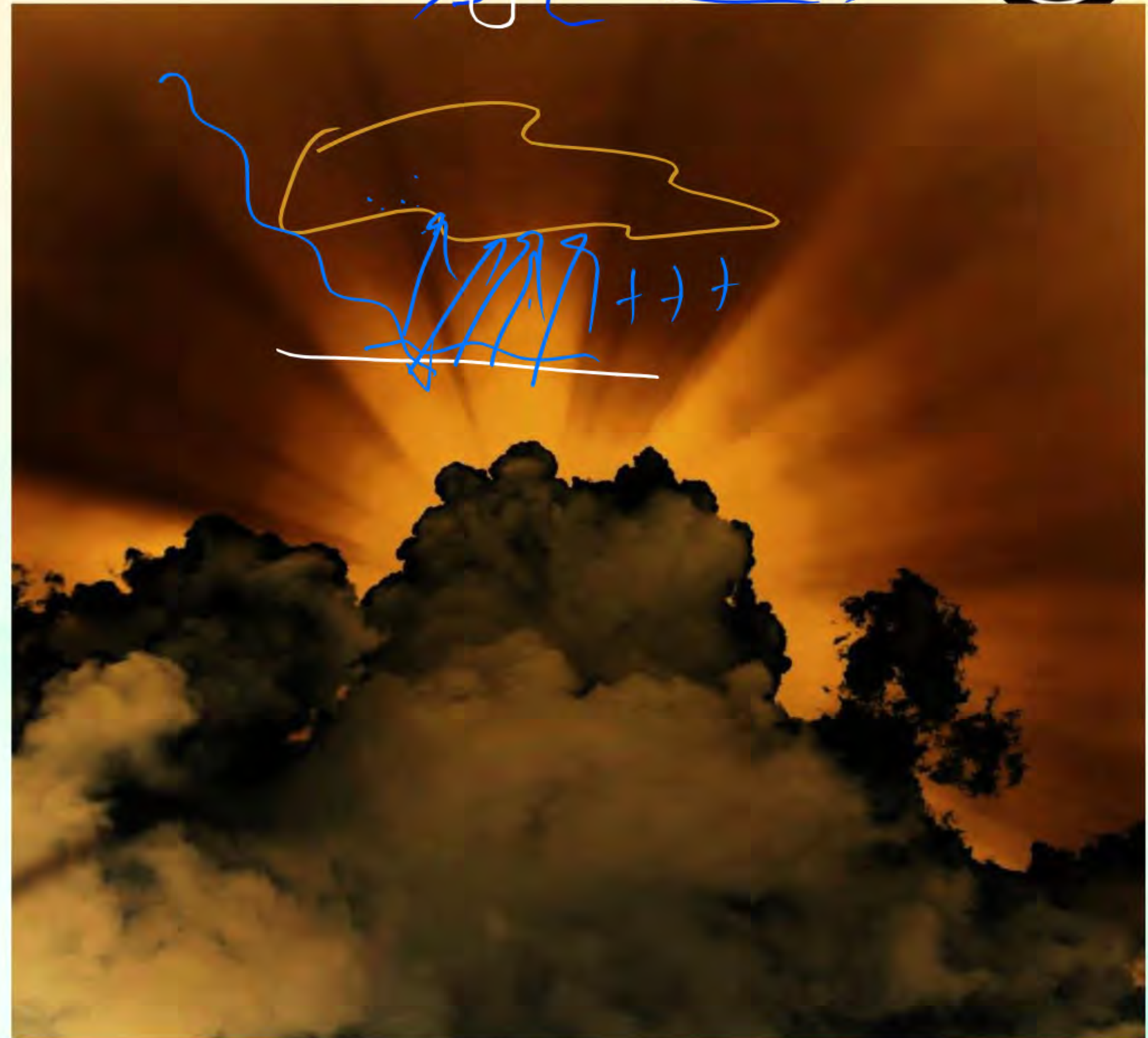
Absolute
 gm/m^3

Specific
 gm/kg

Relative
%

Clouds

- Clouds are defined as **aggregate** of innumerable **tiny water droplets** and **ice particles**, generally formed much above the ground surface.
- Clouds are formed due to **condensation** of water vapour around **Hygroscopic Nuclei**.
- Clouds play a very **significant** role in **Heat Budget**.

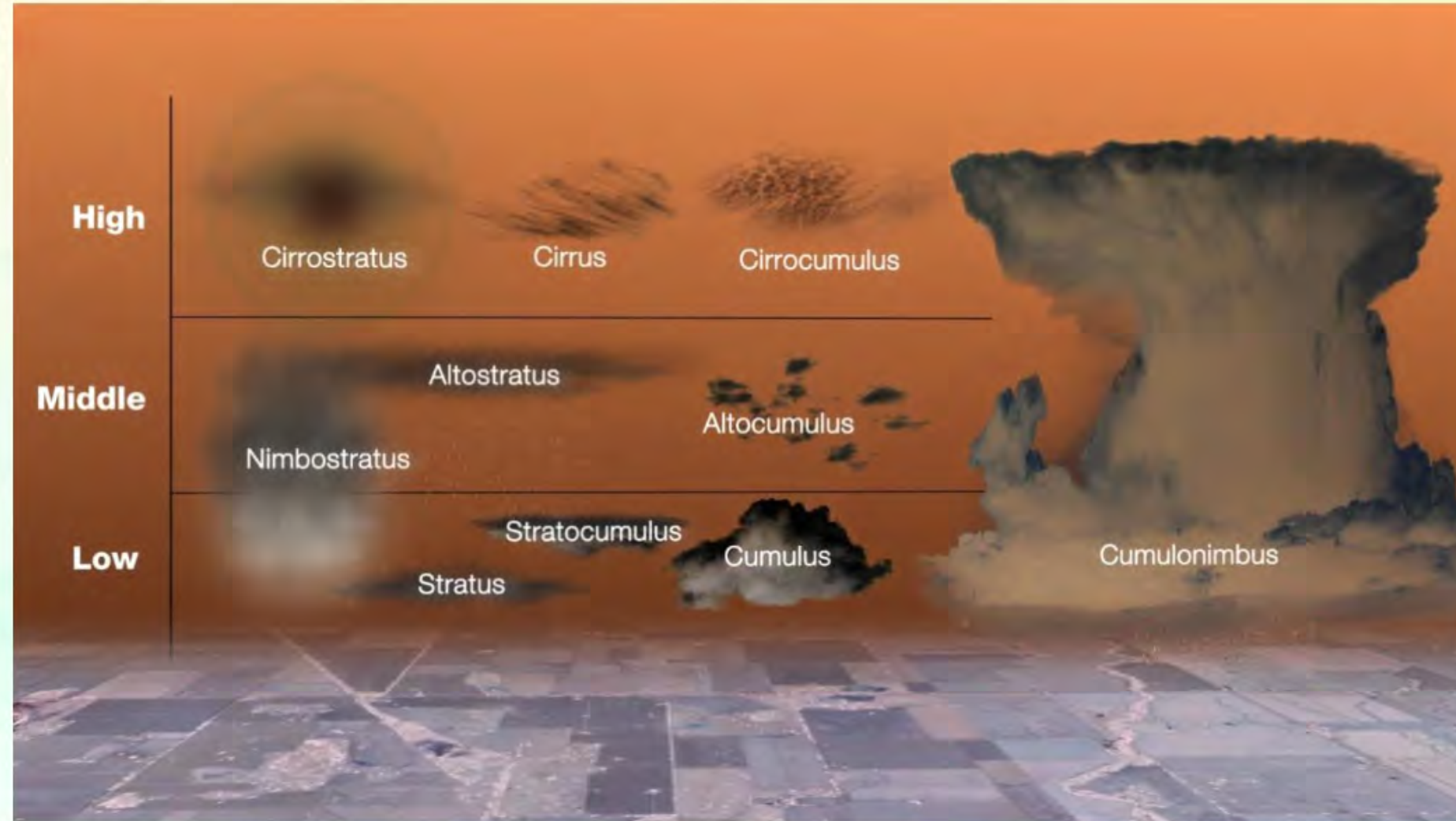


Types of Clouds



Based on height clouds are classified into 3 parts.

- High Clouds (6000-12000 m)
- Middle Clouds (2000-6000 m)
- Low Clouds (Up to 2000)



Cirrus Clouds



- High altitude cloud 8000 to 12000 M
- Silky in appearance
- Indication of dry weather
- Show beautiful color during Sun rise and Sun set



Cirrus Cumulous Clouds

Mackerel clouds.



- White colored clouds
- Have small flakes
- It looks like sand ripples in desert



Cirro-Stratus Clouds

High-

layered.



- These are spread in milky thin sheet
- They appear just before the Cyclone



Alto-Stratus Clouds



Mid Layered.

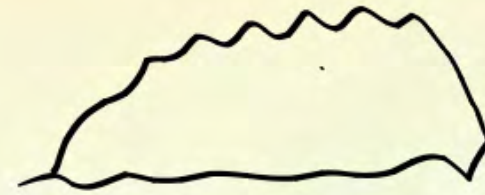
- These are **thin** sheet **grey** and **blue** cloud
- When this cloud become **thick** **Sun** and **Moon** become **obscured** *blocked*



Stratus Clouds



- These are **dense, low line** cloud
- They composed of **several layers**
- Responsible for **Drizzling**
- These are formed in **winter**
season



Cumulus Clouds



- Cumulus clouds look like cotton wool. They
- are generally formed at a height of 4,000 -
- 7,000 m. They exist in patches and can be seen
- scattered here and there. They have a flat base.



Nimbo-Stratus Clouds



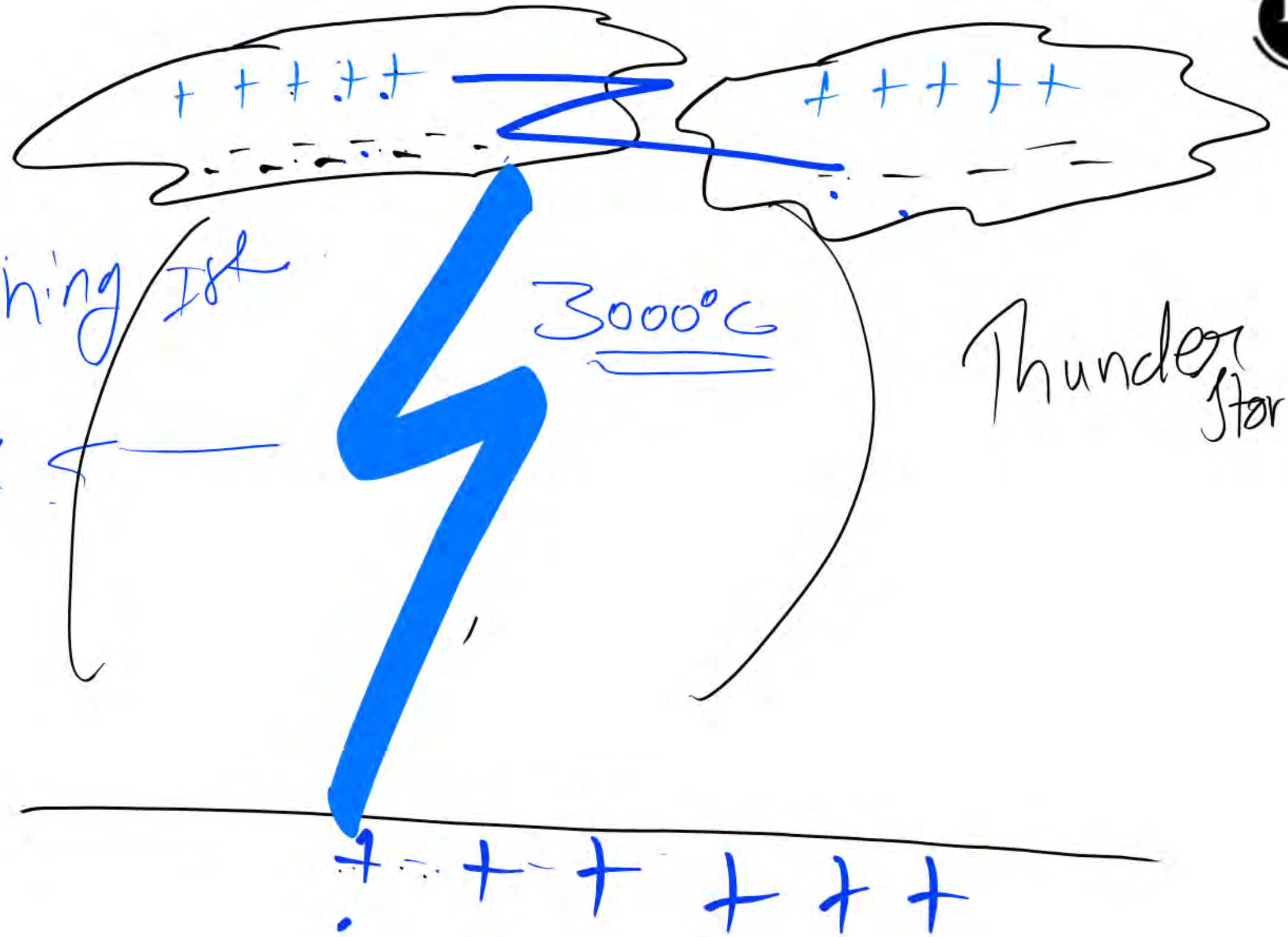
Thunder Storm

- These are low cloud of dark color
- They Create Darkness when they form
- Torrential Precipitation occur with them



Speed of light is more than sound.

we see lightning 1st
lightning



Precipitation

VCNWS

Grains

(E - W)



When cloud become saturated it start Precipitating

Precipitation are of different types

- 1) Rainfall ✓
- 2) Snow Fall ✓
- 3) Sleet ✓
- 4) Hailstorm ✓
- 5) Virga ✓



Rainfall

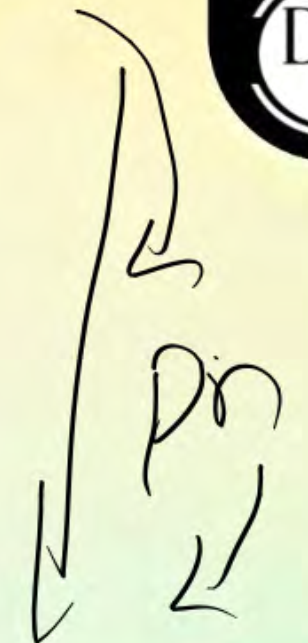


- When clouds become **saturated** rainfall occur
- It is a component of **water cycle**
- Rainfall is measured by **Rain Gauge**
- The line joining the place with same rainfall is called **Isohyte**

ES:

NDA

Cond.



CDS

=



Which one of the following is not a form of condensation :-

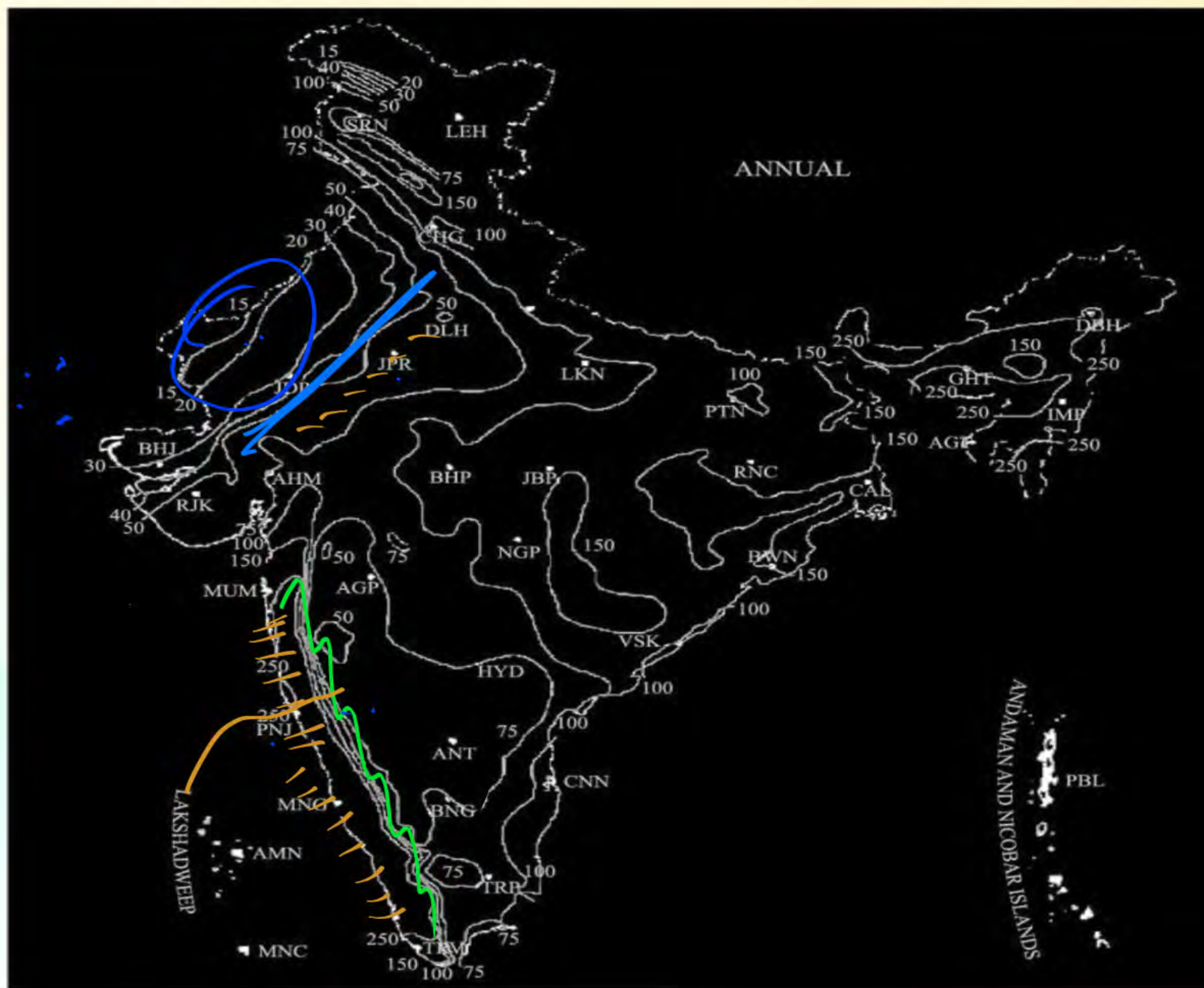
A Dew

B Fog

C Frost

D Sleet





Types of Rainfall



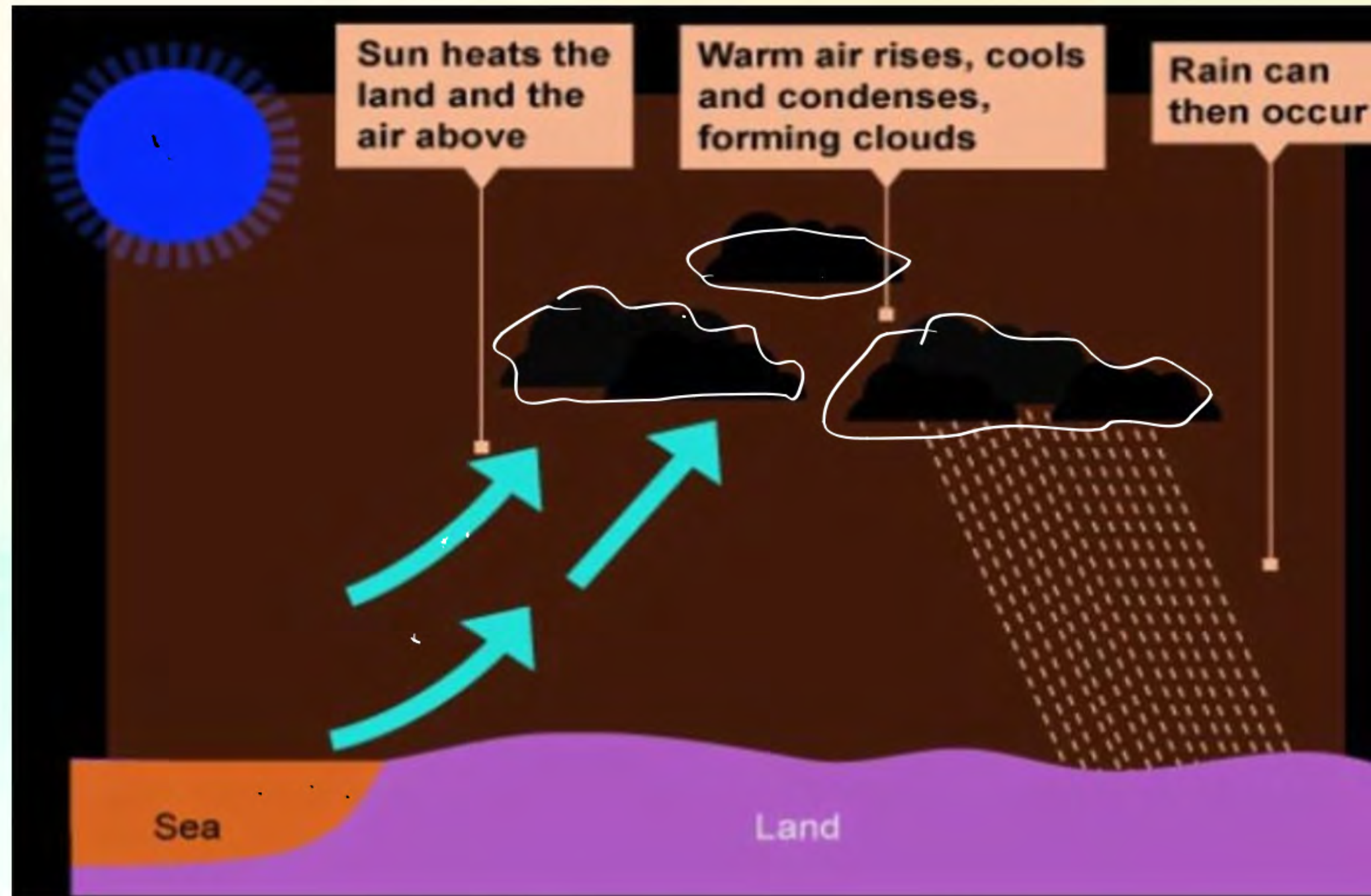
There are 3 types of rainfall

1) Conventional Rainfall

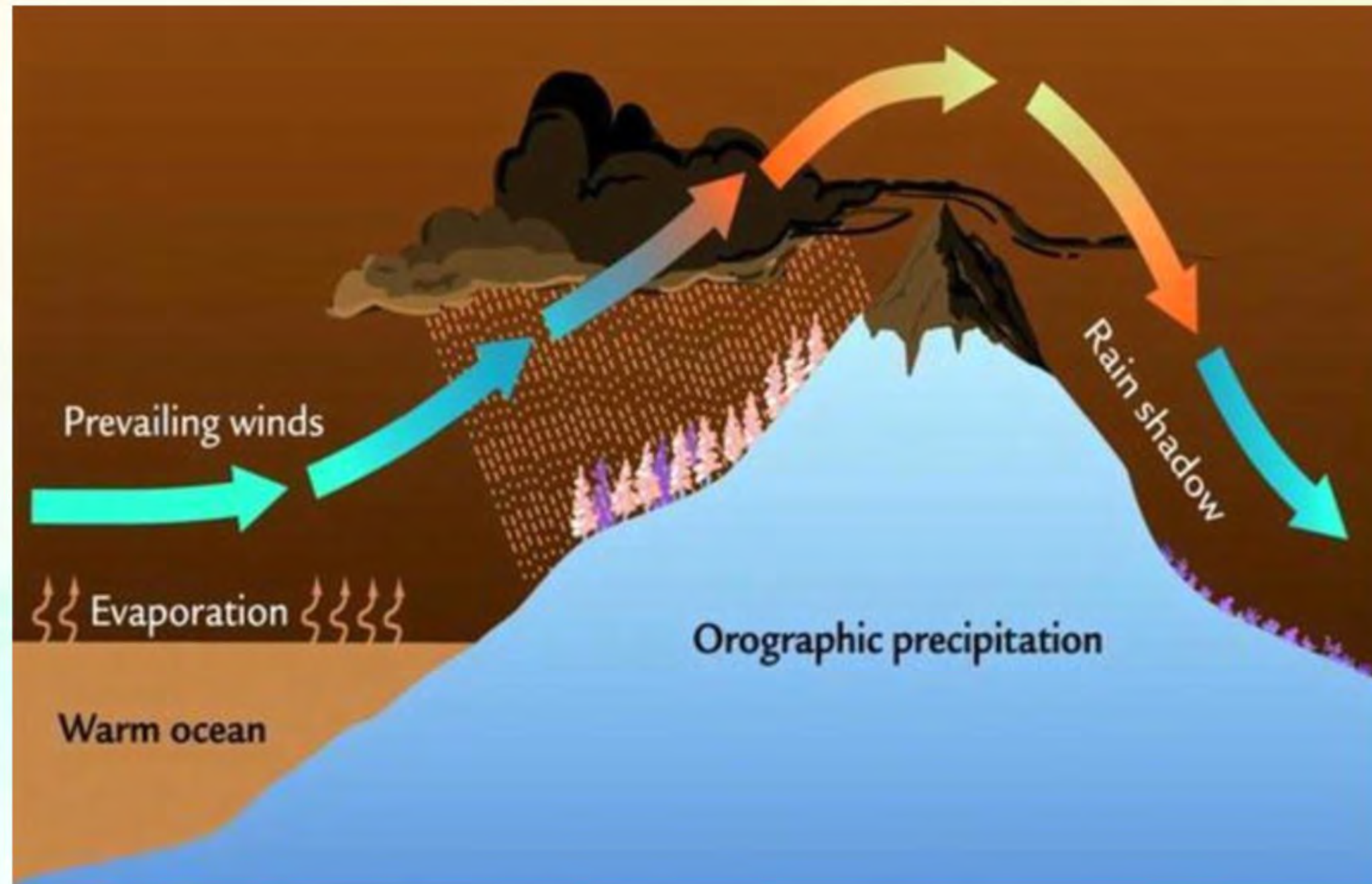
2) Orographic Rainfall

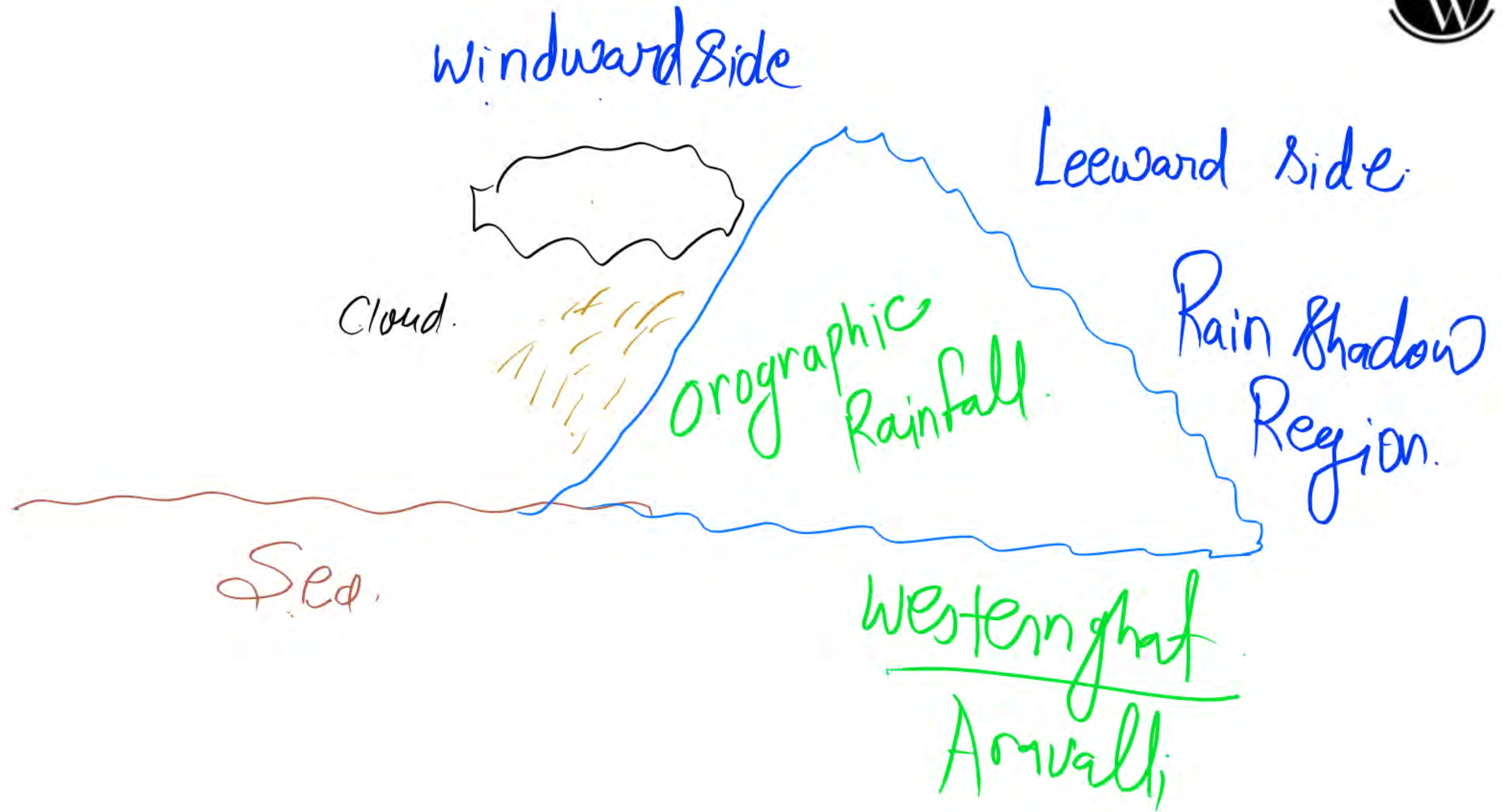
3) Frontal or Cyclonic Rainfall

Conventional Rainfall

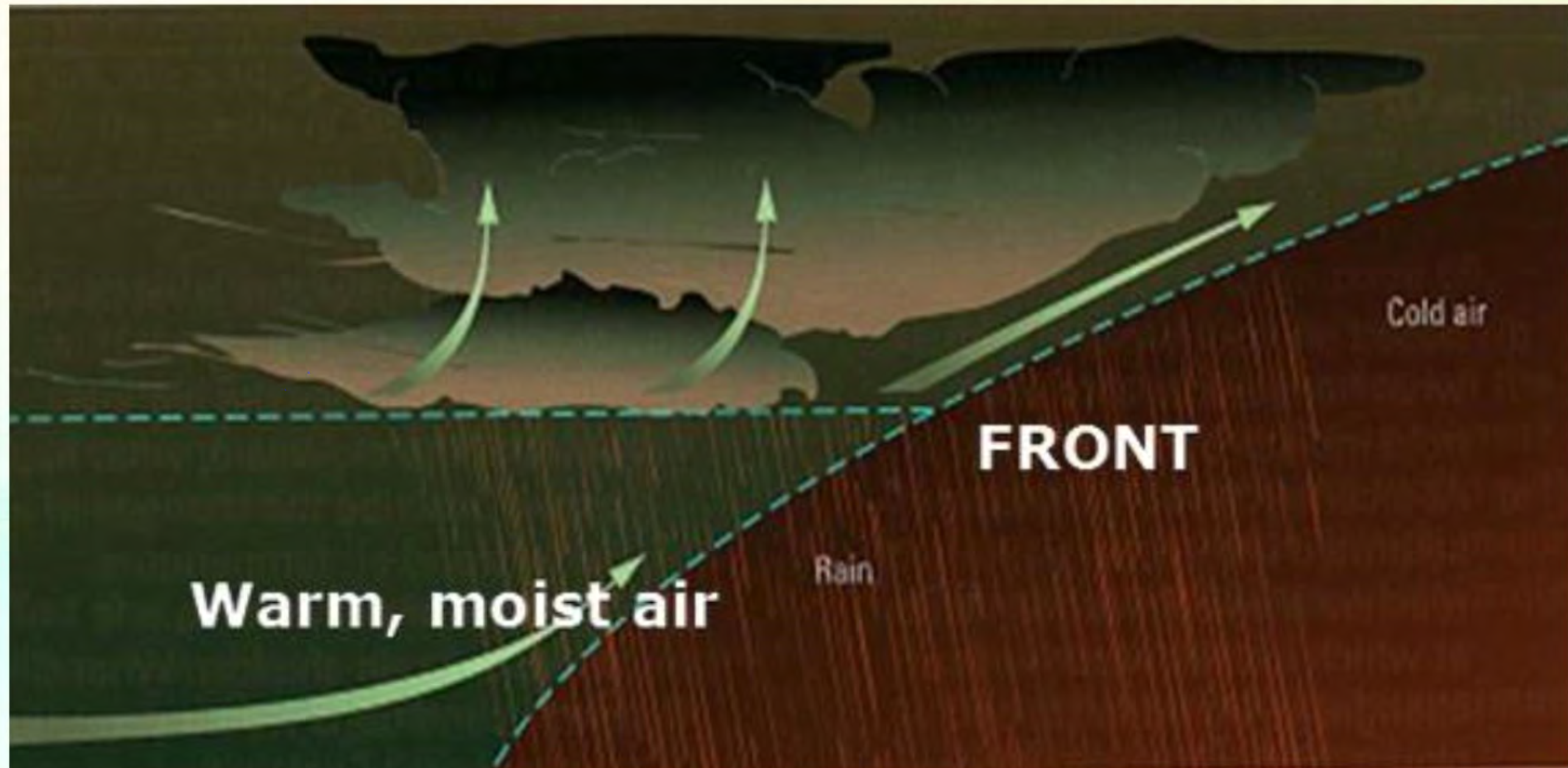


Orographic Rainfall





Frontal or Cyclonic Rainfall





Artificial Rain

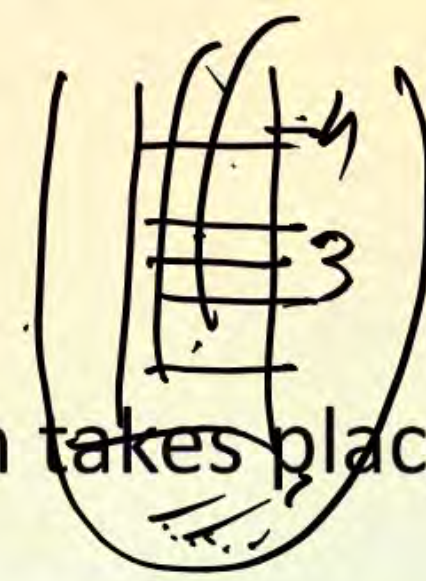


Silver iodide



Snow fall

Extrnd



6cm,



When temperature is below 0°C the precipitation takes place in the form of flakes, and it is known as **Snow Fall**

Geography



Sleet



- Sleet is mixture of ice and water **ice particles**
- It is a kind of **frozen** precipitation

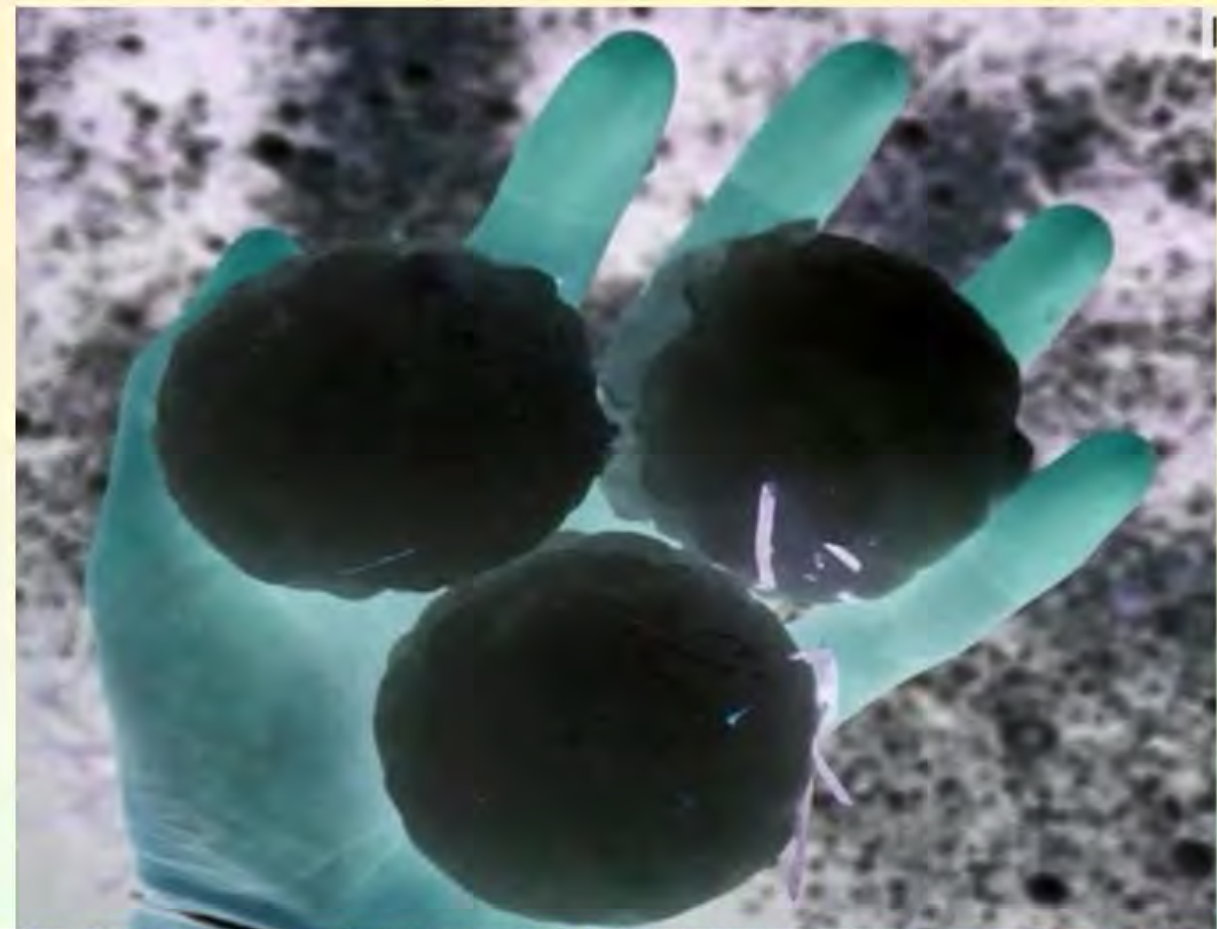
Warm and

0



Hailstorm

- In this type of precipitation ball of ice are formed
- These are harmful for crops



Virga

Water of Atmosphere

000



Rainwater evaporates before reaching the earth surface



- Rainfall
- Snow fall
- Hail/storm
- Virga
- Sleet

JOIN US ON



NDA Shaurya Group

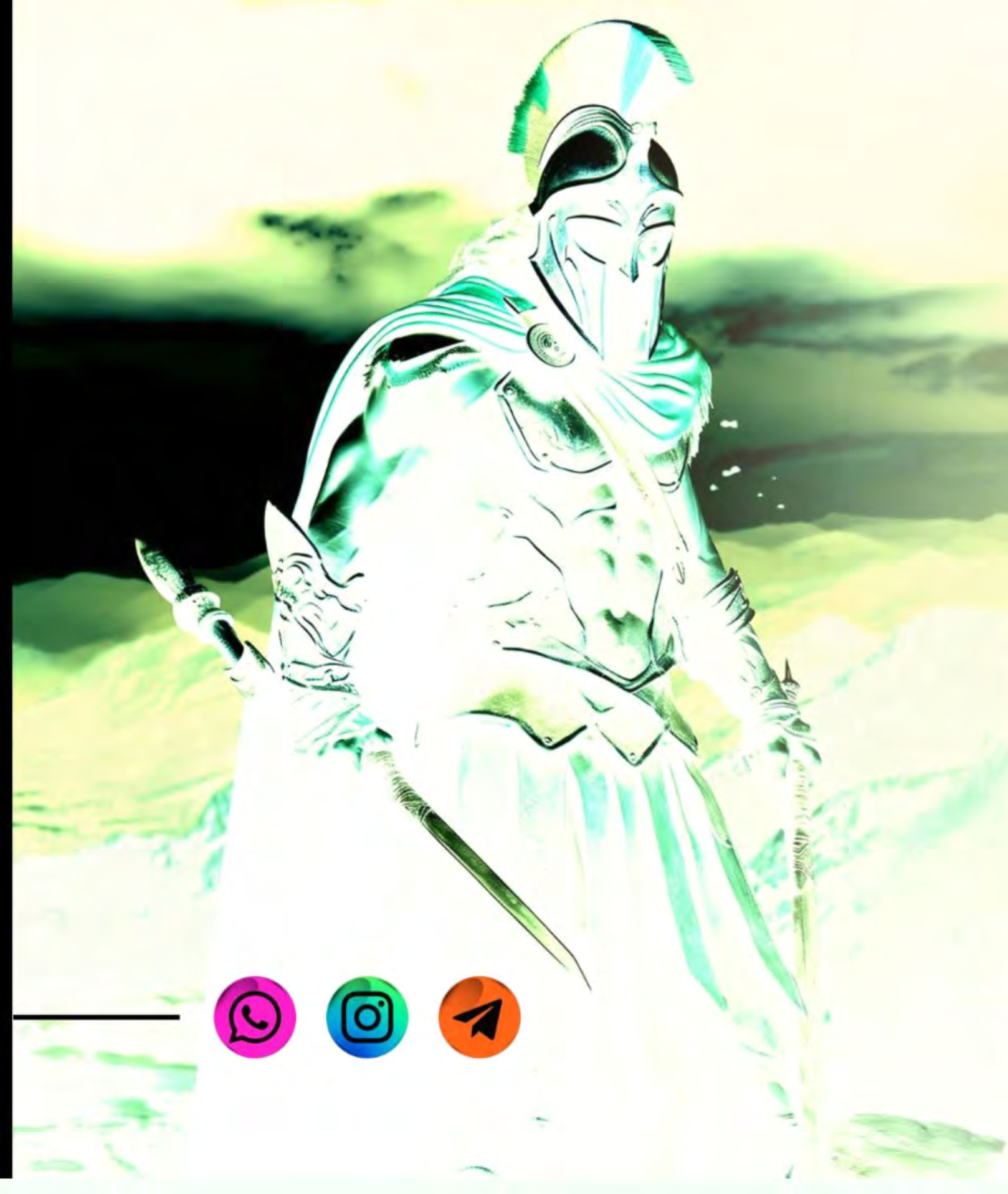


defencewallah_



Defence Wallah





JAI
HIND

