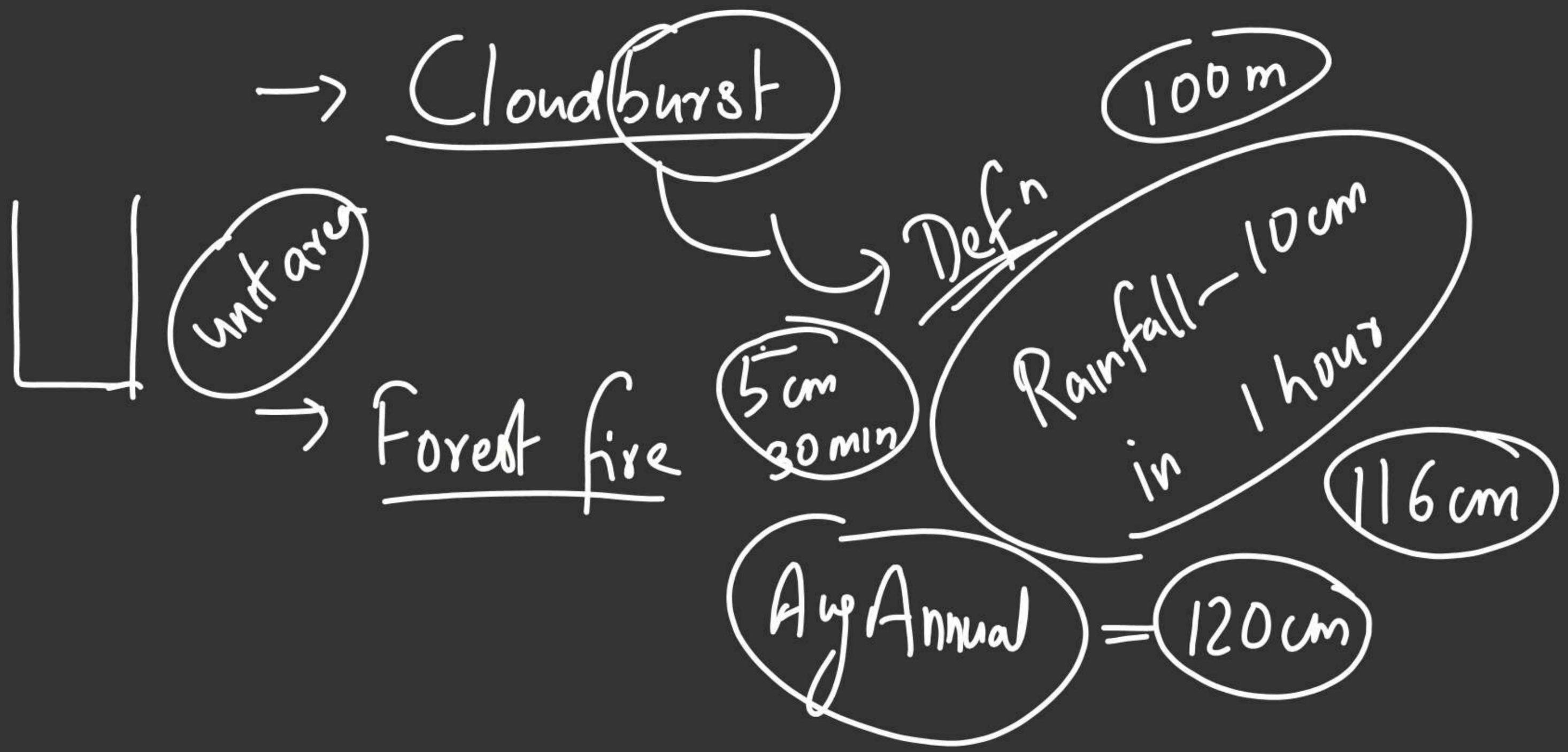




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Cloudburst

Surf area

Forest fire

Defn

100m

5cm  
30min

Rainfall - 10cm  
in 1 hour

116cm

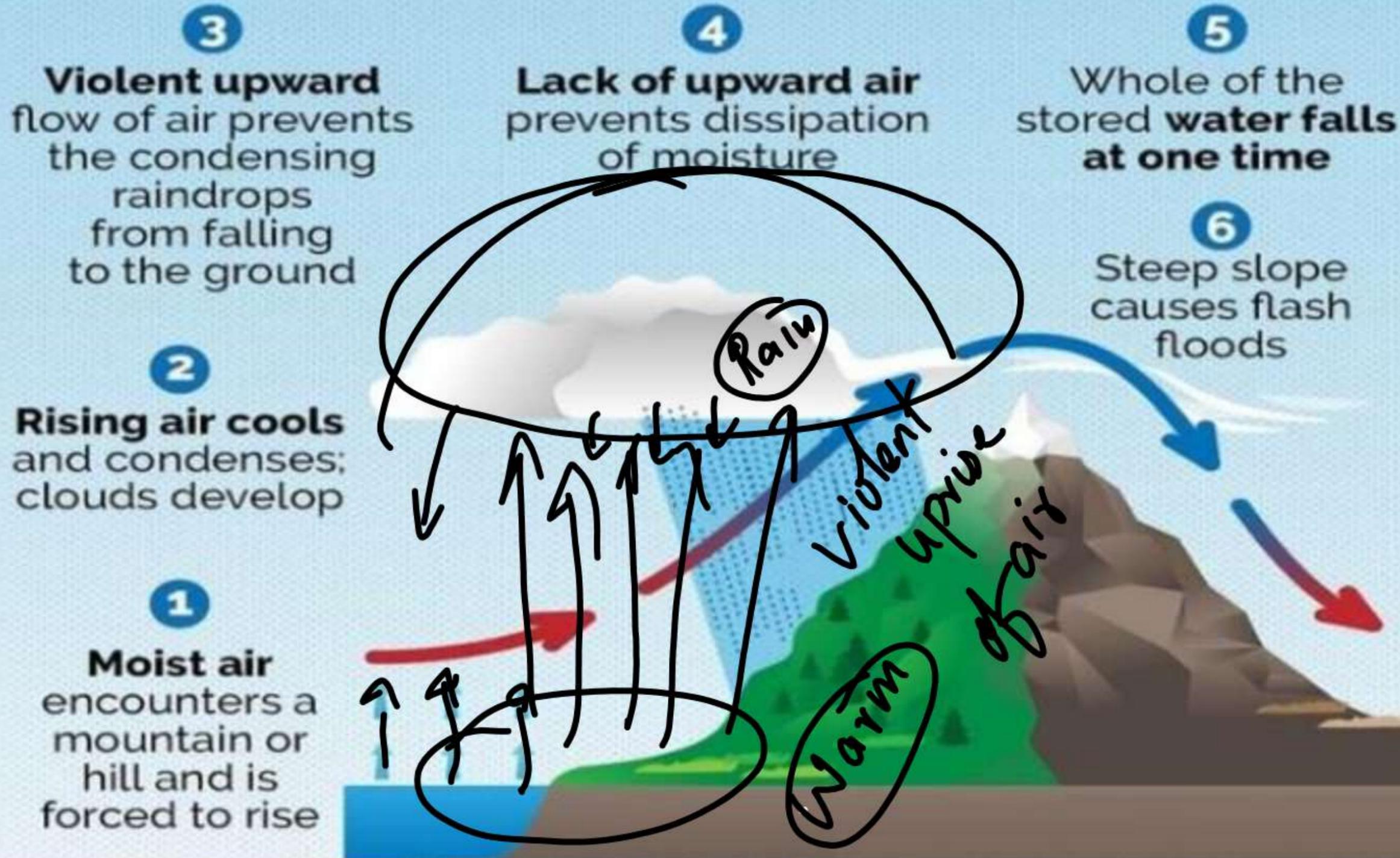
Avg Annual

= 120cm



**WHAT IS CLOUDBURST?**

## Orographic Lifting And Cloudburst



Normally occur in Mountain

Generally Region

Localised Rainfall

Cc

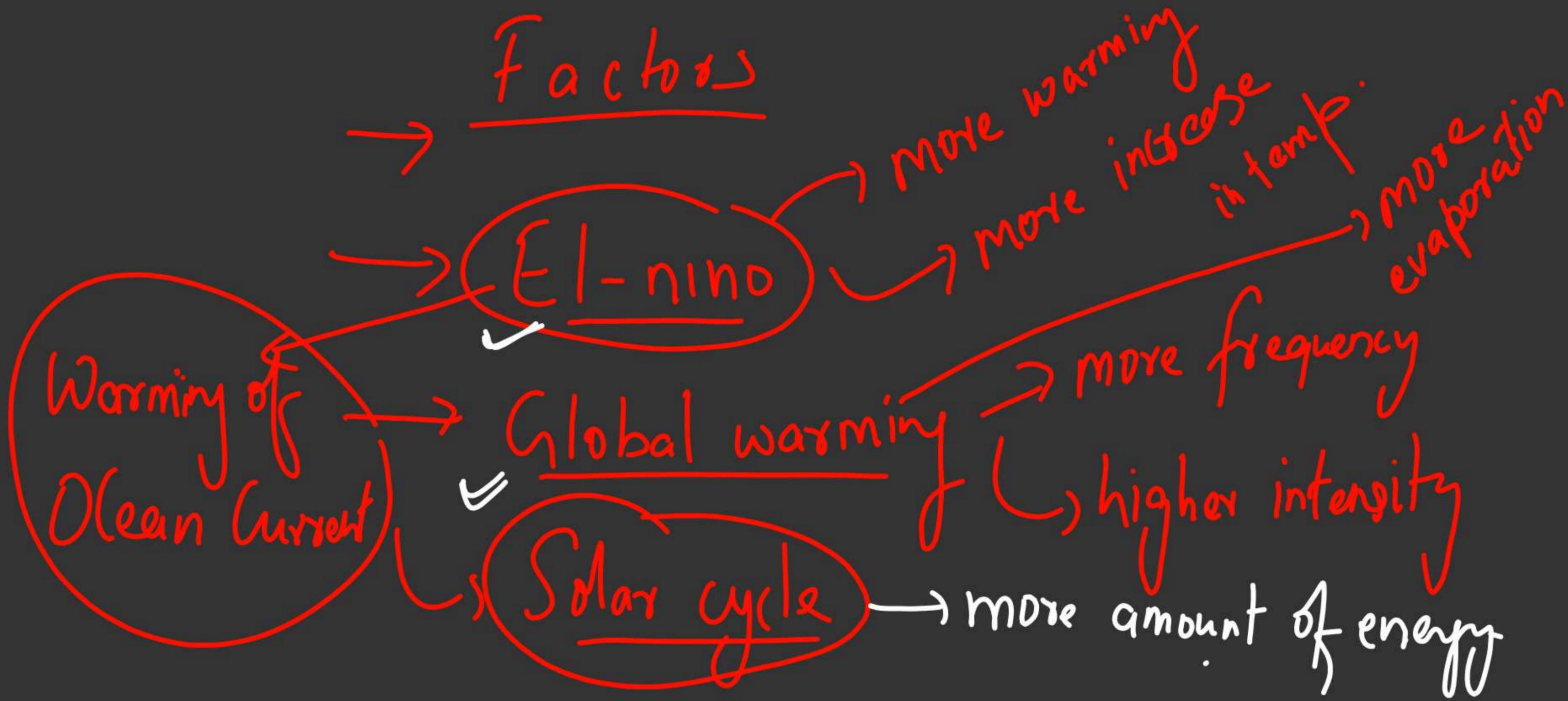
Can we predict?

→ OCCURS over a small area.

→ Advance forecasting  
not feasible in present times

# Instances of Cloudburst

- **Mumbai** had experienced on July 26, **2005**, which is one of the most extreme instances of rainfall in India in recent years. At that time, Mumbai had received **94** cm of rain over a 24-hour period, resulting in deaths of over 400 people and more than **USD 1 billion** in economic losses.
- In **2010**, dozens of villages and the main town of **Leh** in Ladakh were hit by the worst floods in its recent history. Homes and farm fields were devastated and over 250 people were killed.

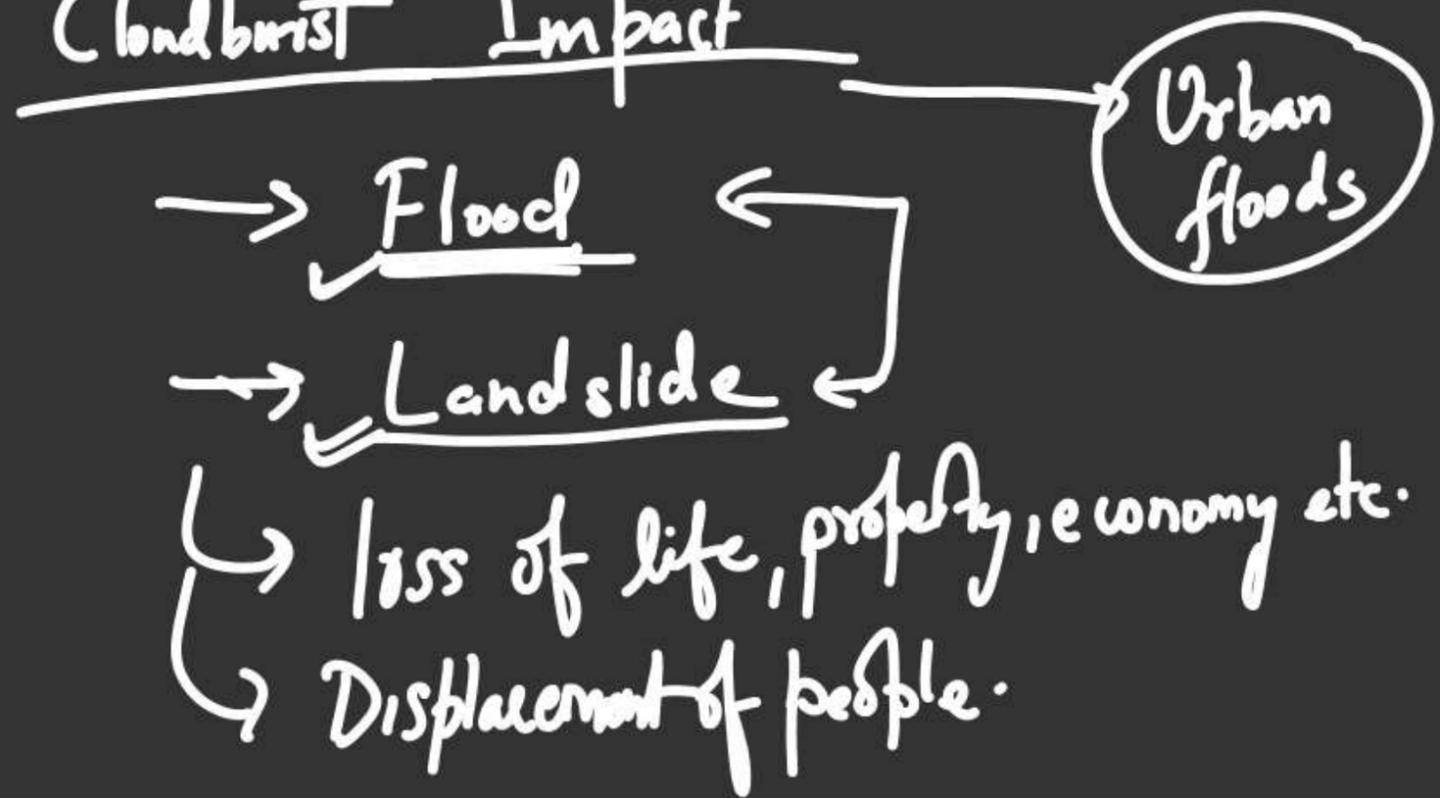


more plant  
↓  
more Reflection  
↓  
less heating

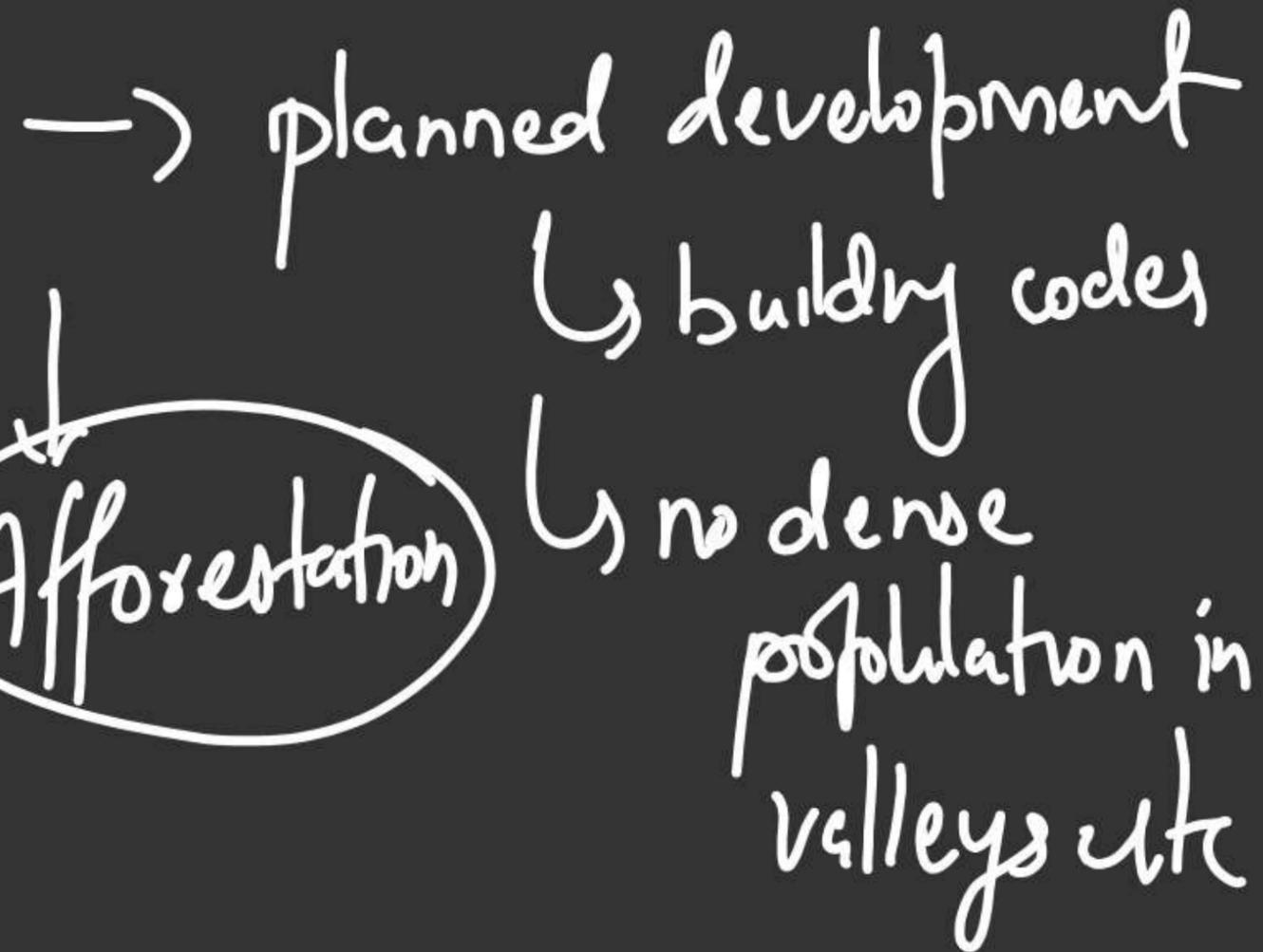
Factor  
→ deforestation

↳ lesser Reflection  
of Sunlight  
↓  
low albedo

## Cloudburst Impact



## Way forward



Controlled and Occasional fire

Wild fire  
Forest fire

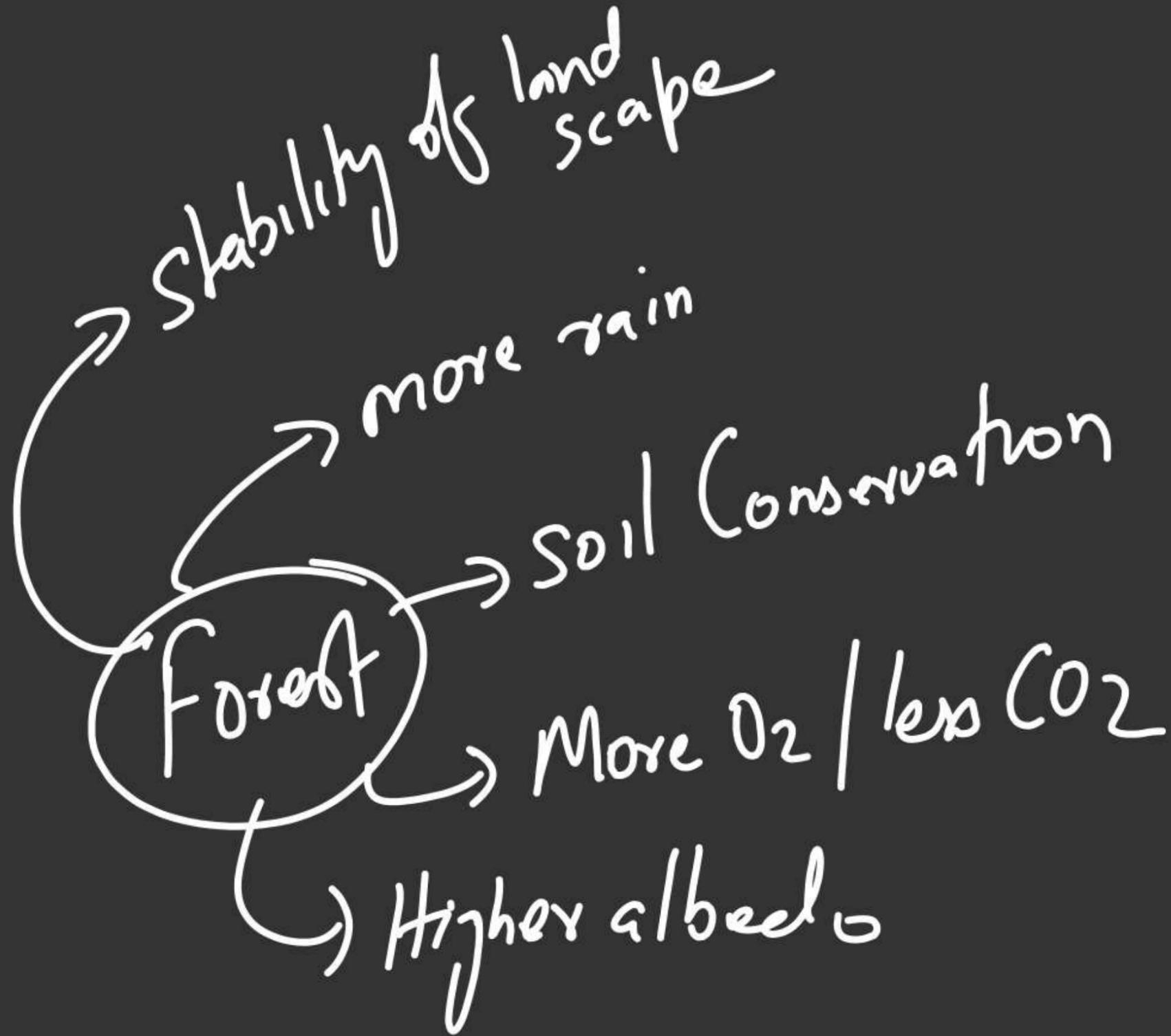
Advantages

Getting rid of insects, pests, diseases etc.

Essential for survival of forest.

getting rid of waste material  
day grass  
leftovers of plants

Controlling the invasive species.  
Addition of nutrients



**Global Warming and Cloudburst**

Can cloudbursts be forecasted?

## Impact of Cloudburst

## Forest Fire

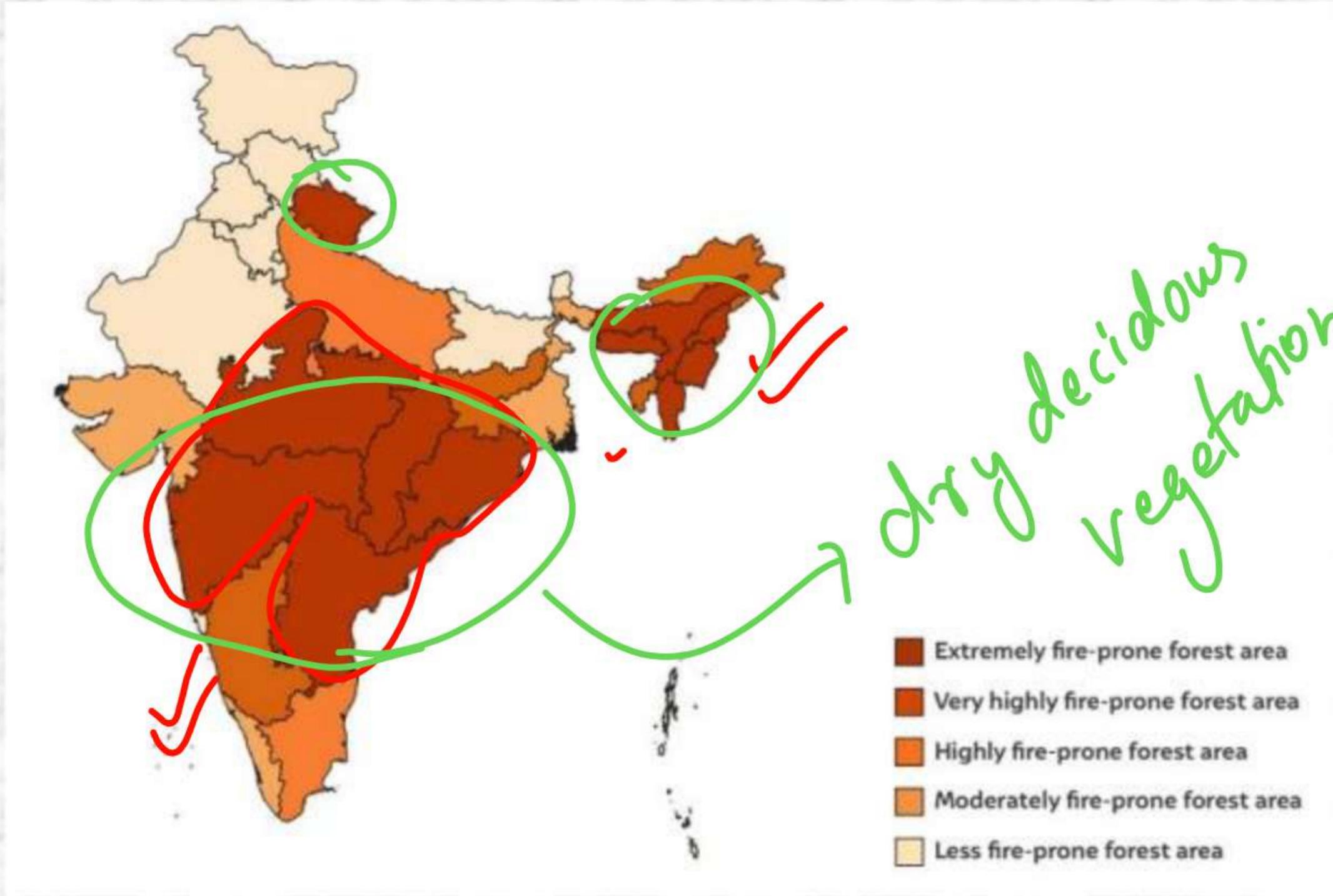


## Forest Fire

⇒ 95% forest fires = Man-made

### Facts

- The proportion of forest areas prone to fire annually ranges from 33% in some states to over 90% in others.
- The Forest Survey of India (FSI) estimated that about 50% of the forest area of the country is fire prone.
- More than 36% of the country's forest cover has been estimated to be prone to frequent forest fires.
- Nearly 4% of the country's forest cover is extremely prone to fire, whereas 6% of forest cover is found to be very highly fire prone.



⇒ heat

Heat



**Ground**



**Surface**



**Crown**

**Causes:**

**Impact:**

## Government Steps:

**Way Forward:**



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**THANKS FOR WATCHING**

