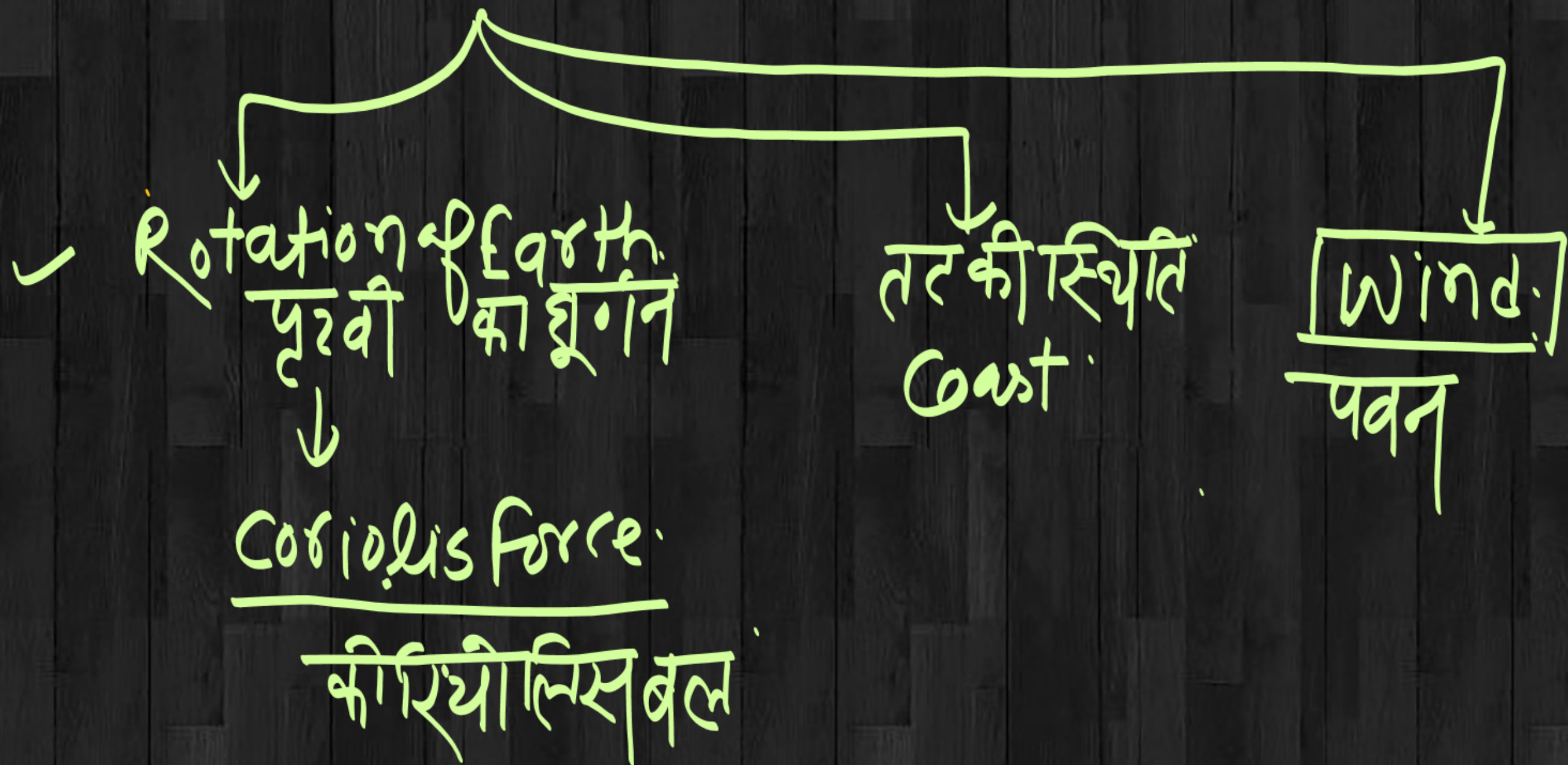
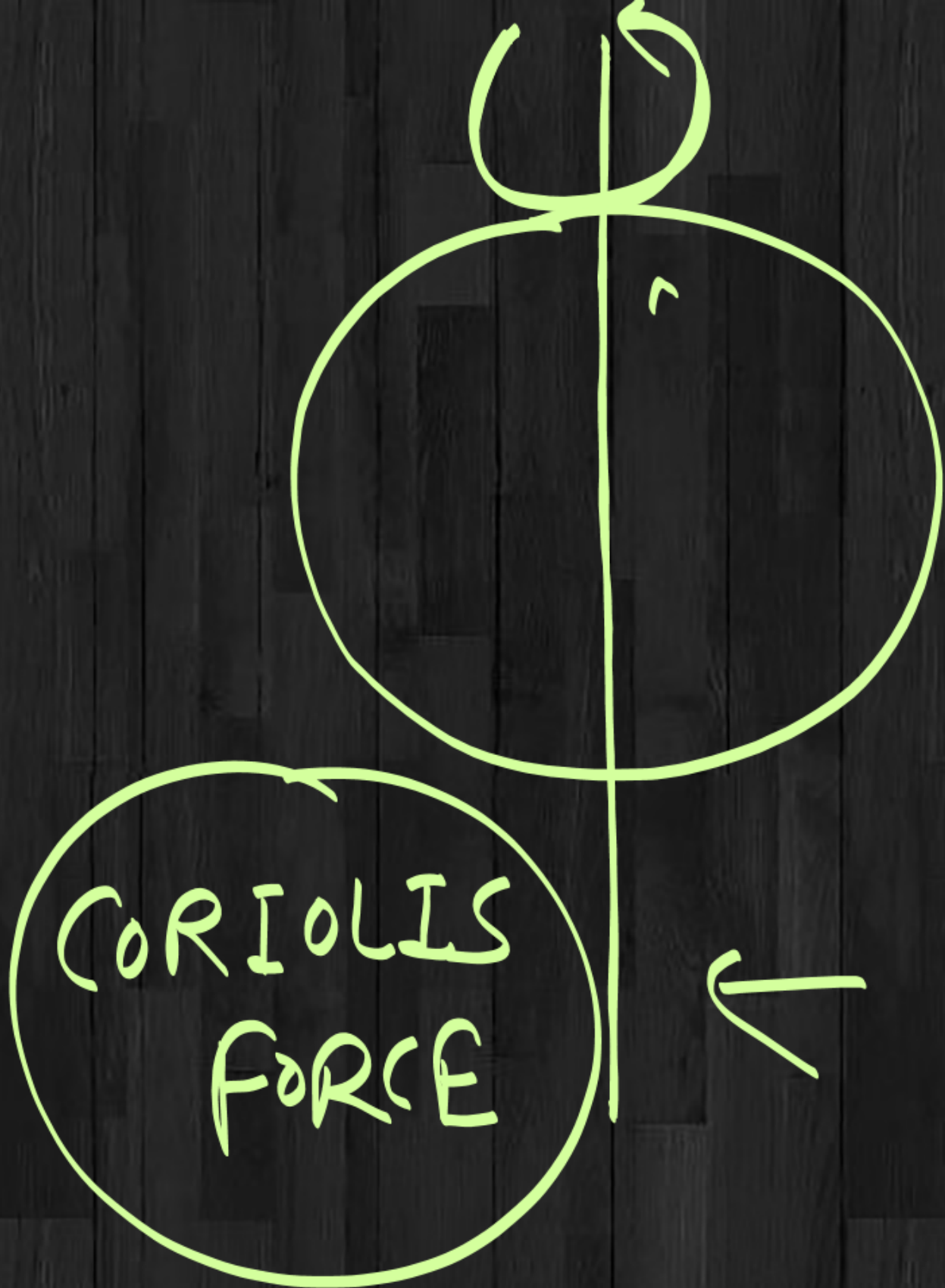
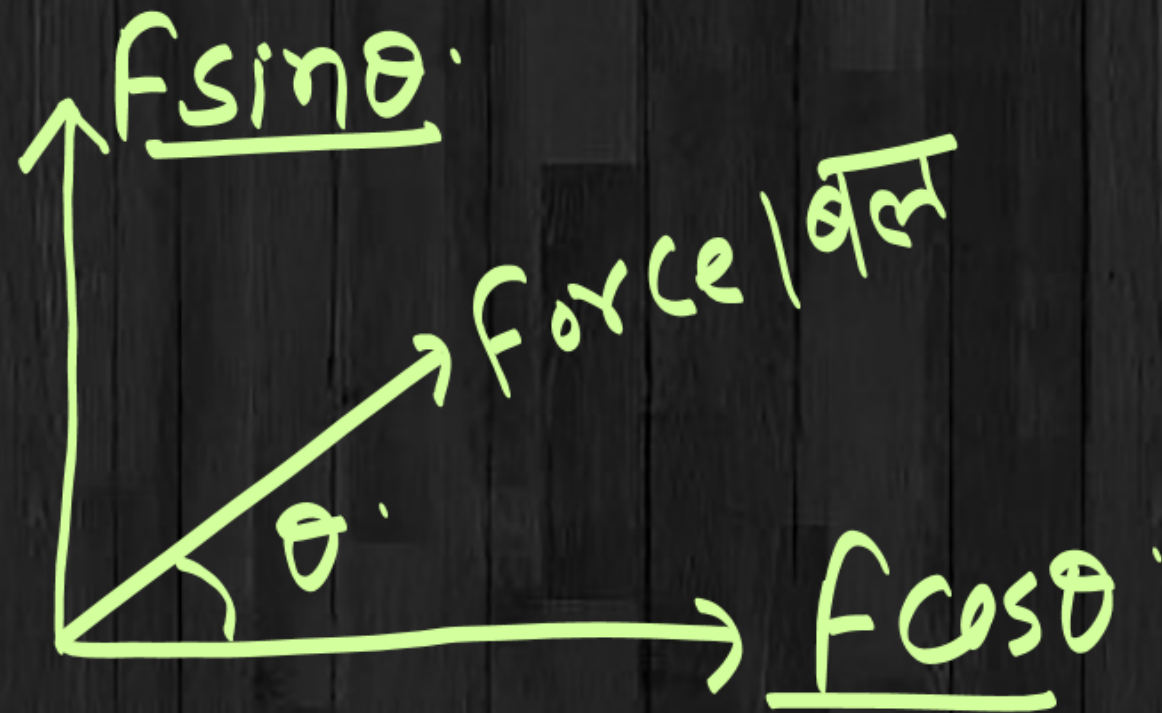






→ Motion of Earth at its own
axis
↓
Rotation speed. → ω ✓
घूर्णन वेग
↓
बल / Force. → आभासी बल / Pseudo
Force.



$$\text{Coriolis Force} = F \sin \theta$$

Equator $\theta = 0$

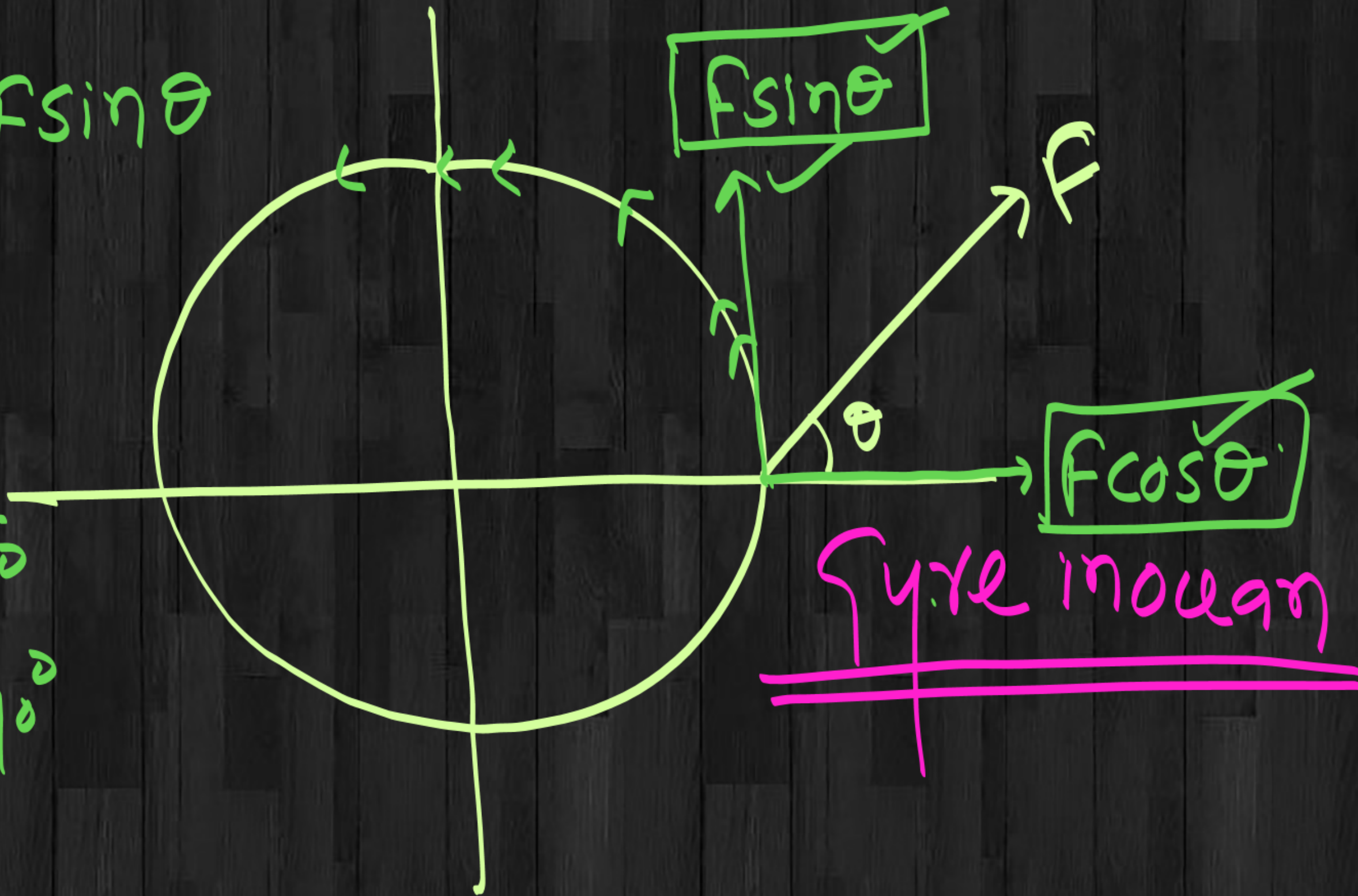
विषुवतरेखा

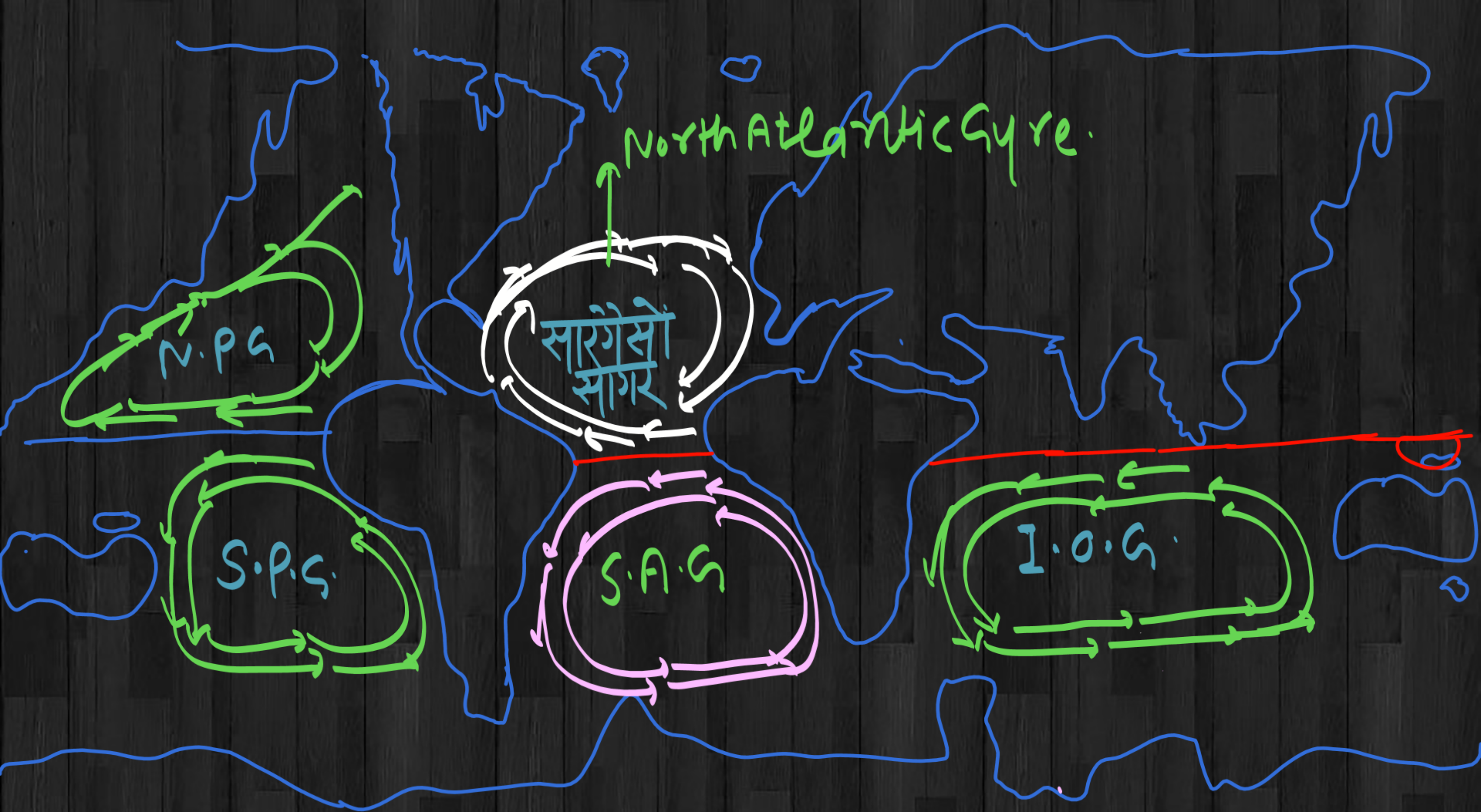
$$F \sin 0 = 0$$

at the Pole $\theta = 90^\circ$

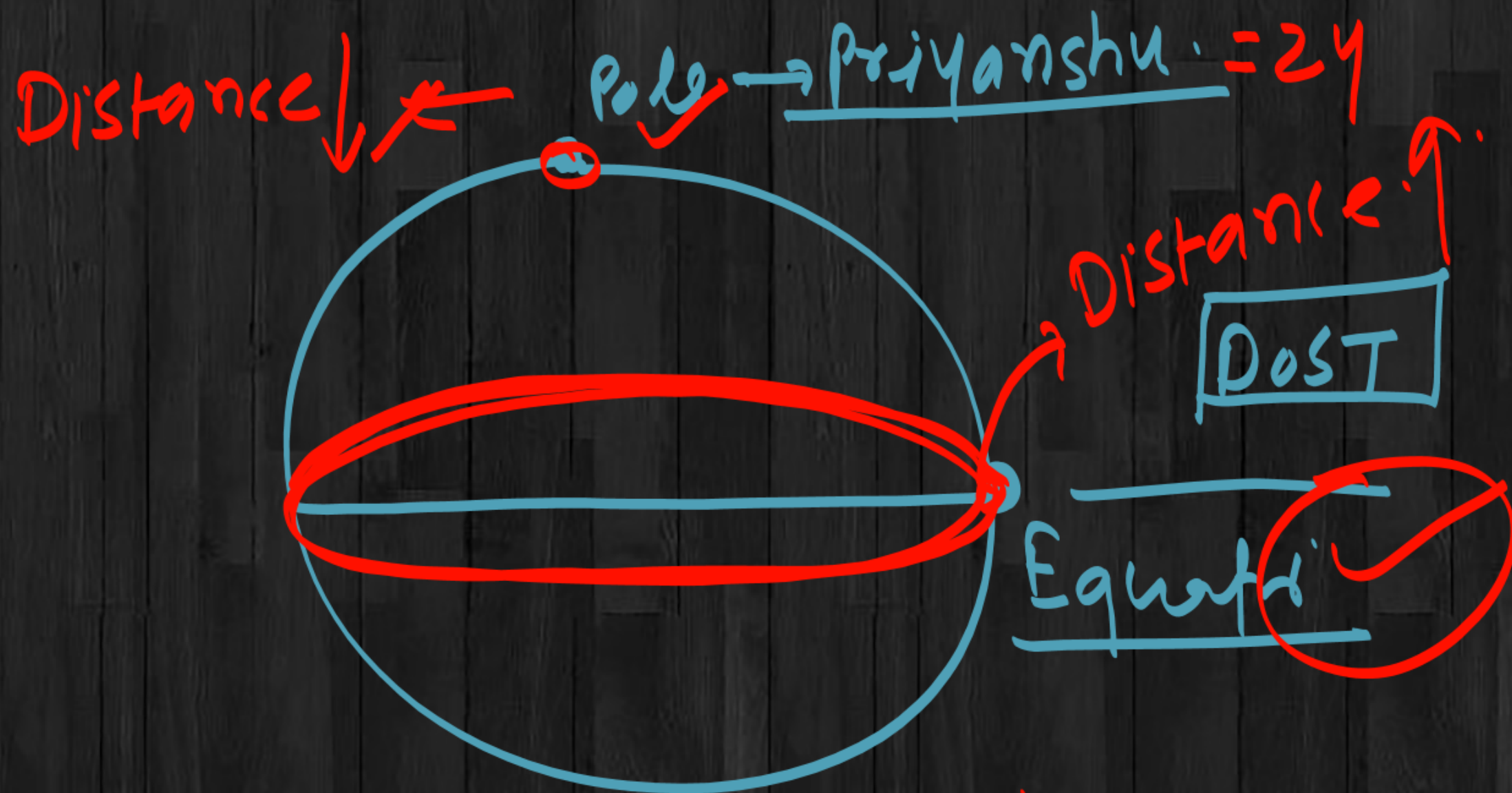
$$F \sin 90^\circ$$

$$= F$$

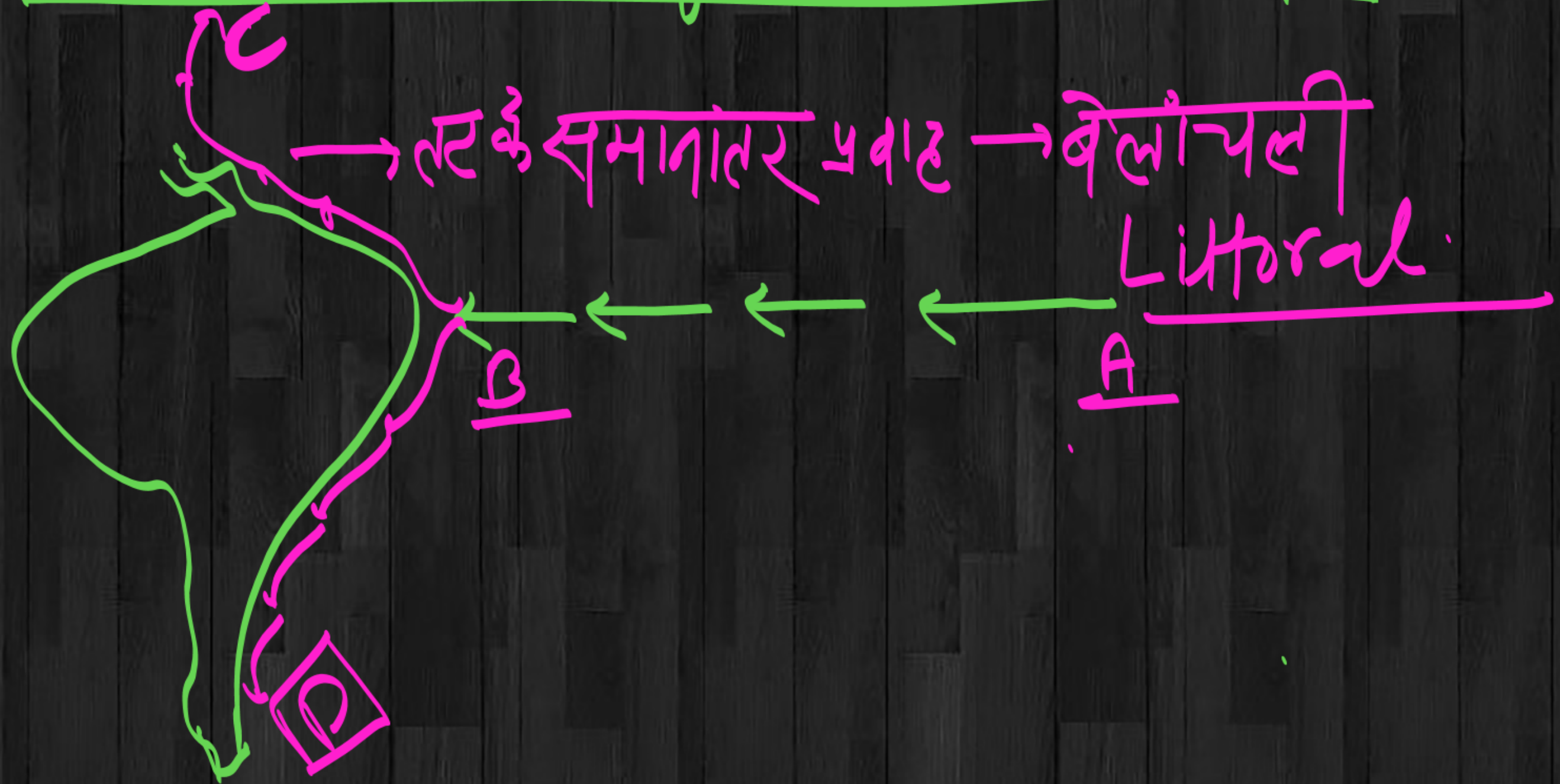




24hrs



Coast and direction of Ocean Current



Wind and direction of ocean currents.

पवन तथा महासागरीय जलधारा की दिशा.

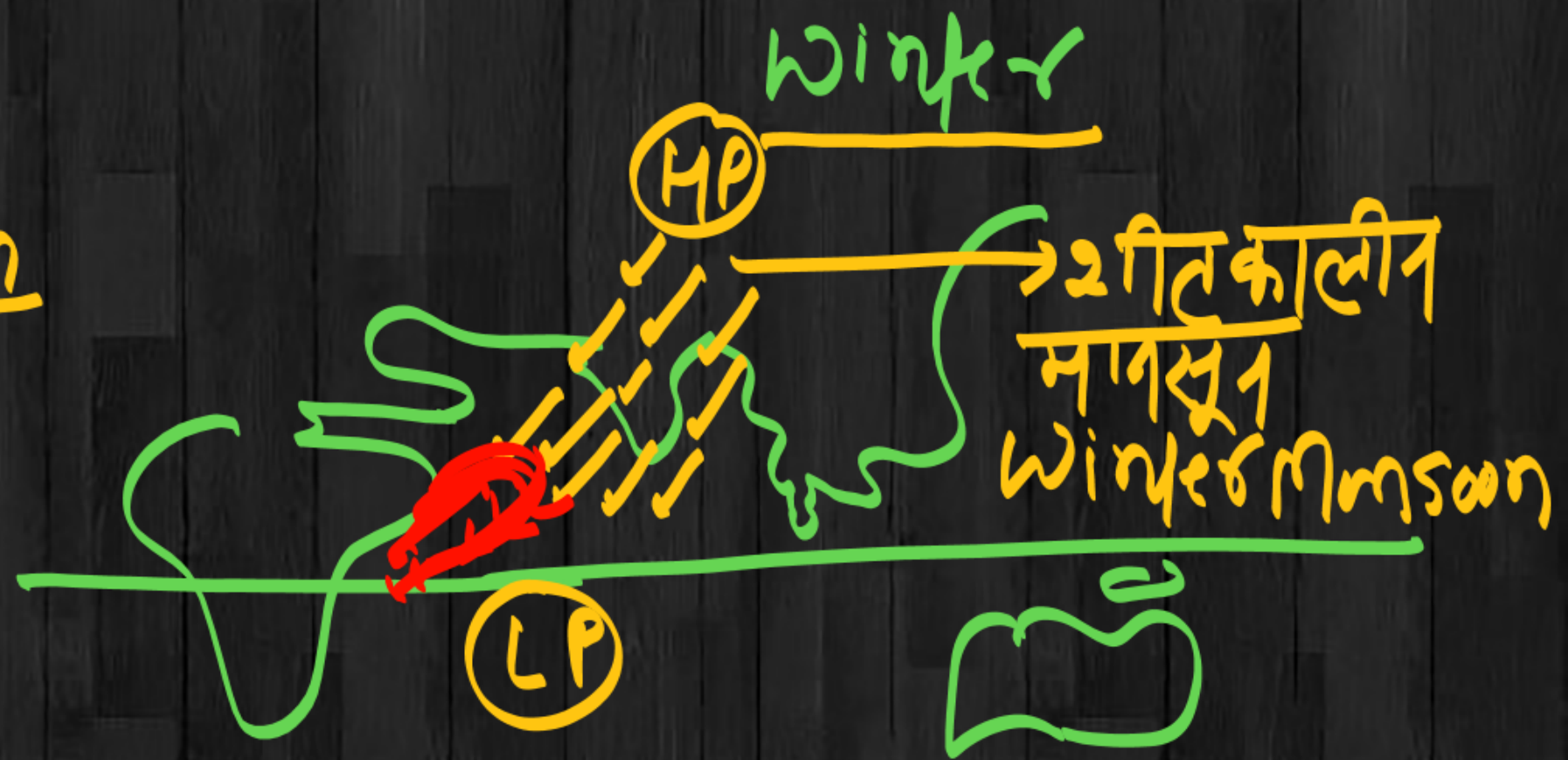
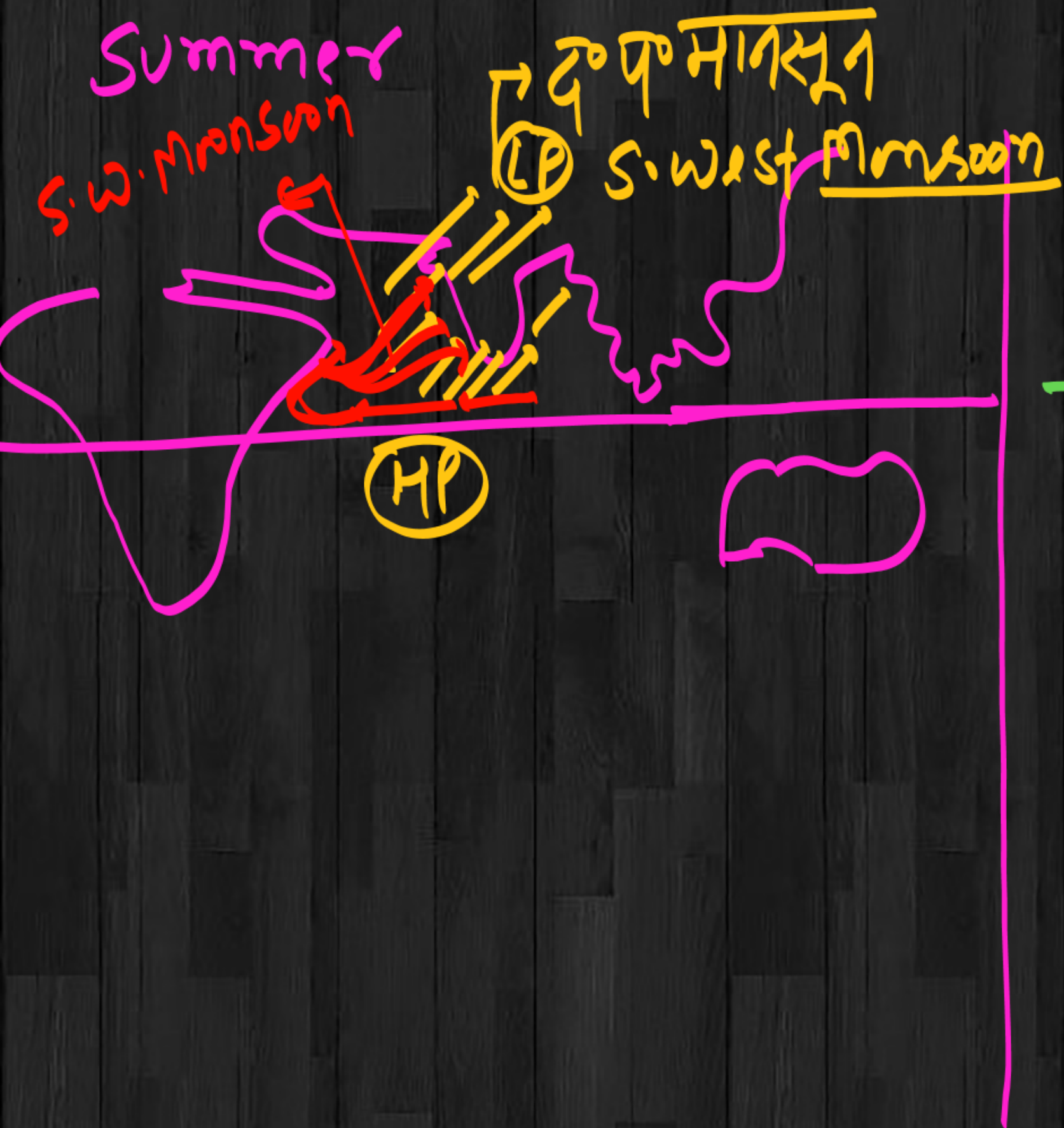


Best Example.

→ Indian ocean.

सबसे अच्छा उदाहरण

हिंद महासागर

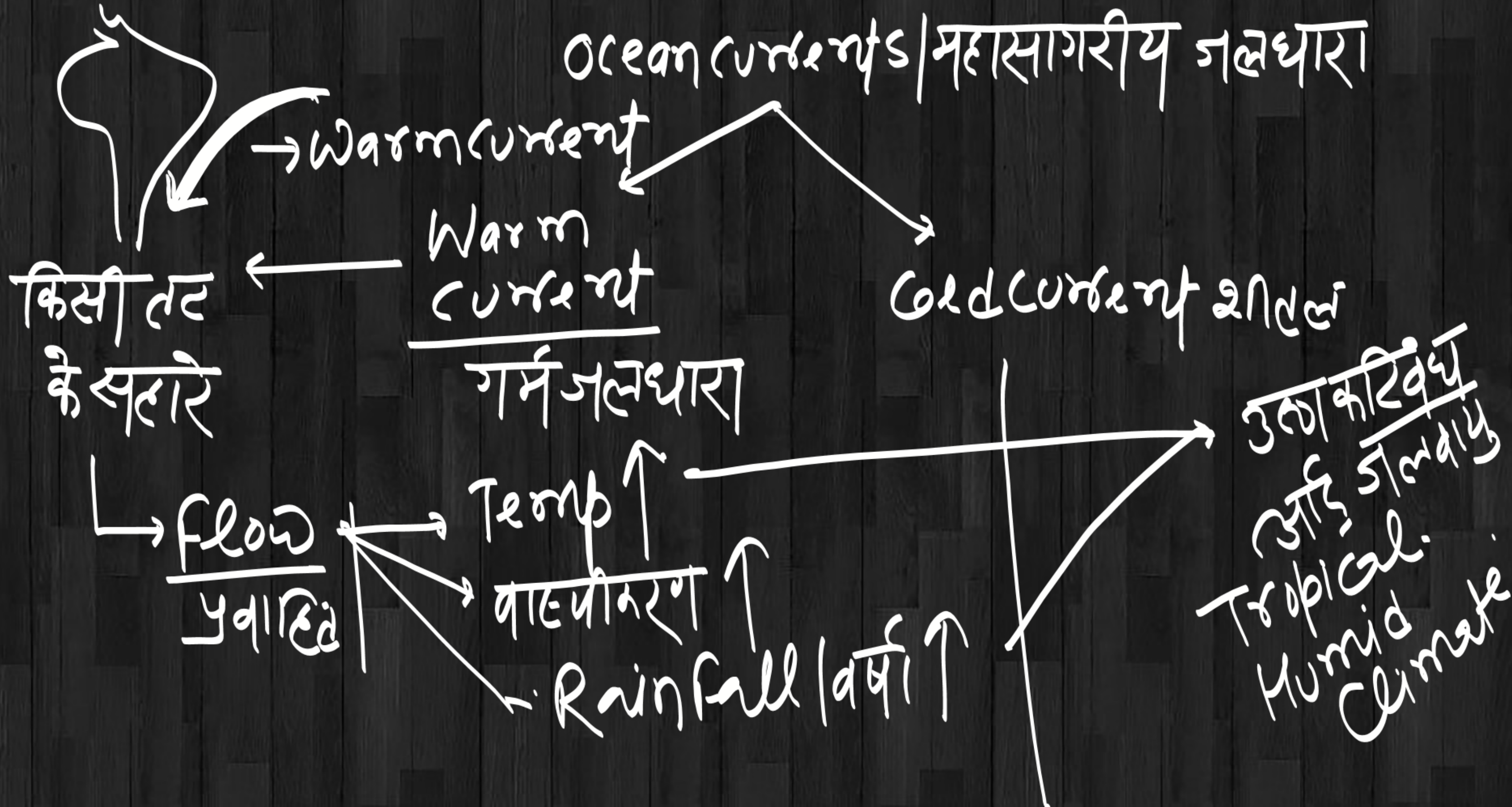


Impact of ocean currents.

महासागरीय जलधारा के प्रभाव

(1) तटीय जलवायु पर प्रभाव (Impact on coastal climate).

Ocean currents / महासागरीय जलधारा



Desert मरुस्थल

cold current / ठंडी जलधारा

Dry Climate

↑ अरुण जलवायु

Cold water



ताप ↓ (Temp ↓)



Evaporation

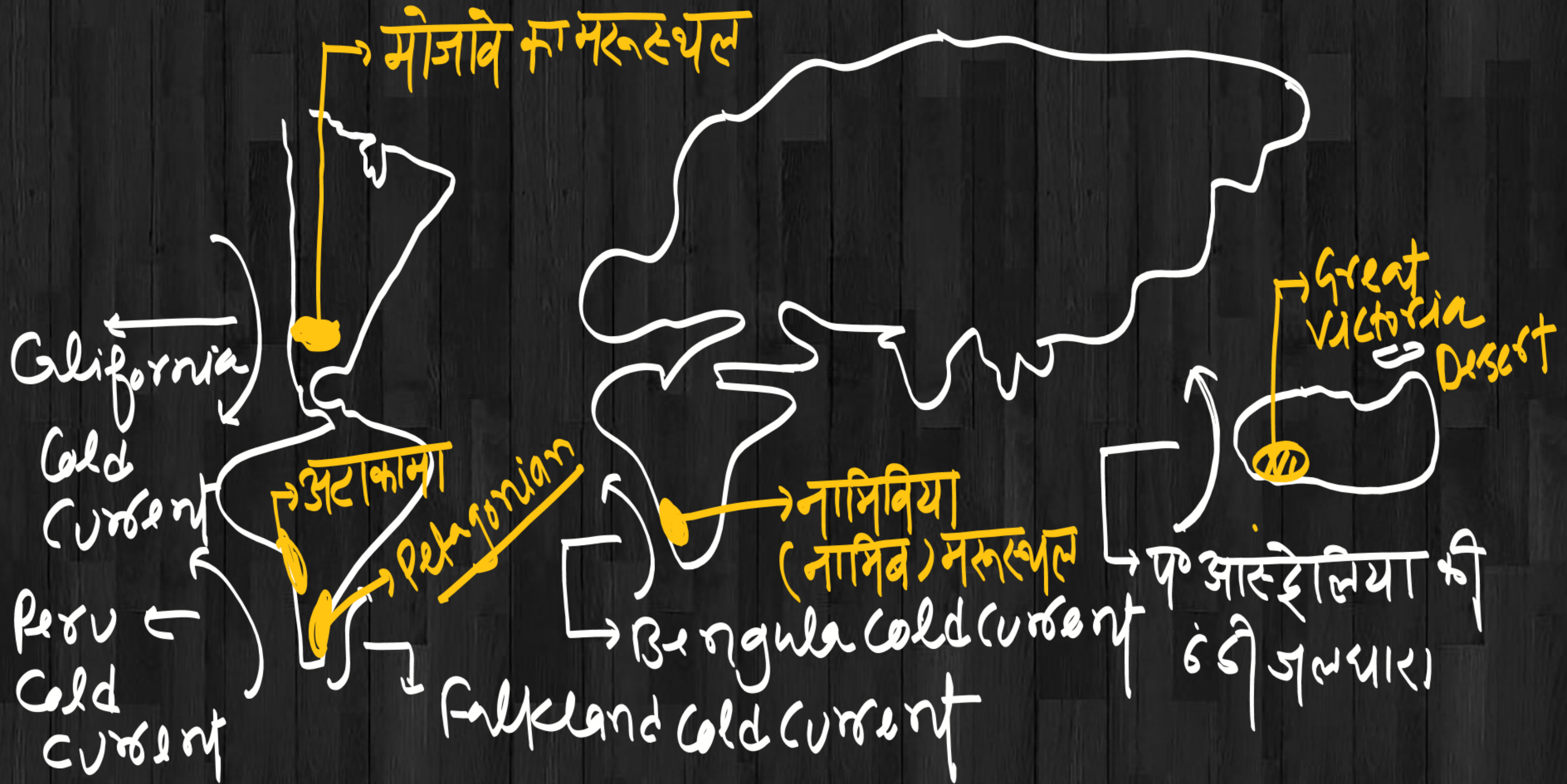
वाष्पीकरण ↓

Rainfall ↓



→ Humboldt

पेरु की जलधारा → Cold



Impact on

Industry

उद्योगों पर प्रभाव

Kyoto Protocol
warm OYASHIO

Japan

Fishing

मछली

उद्योग

Warm current

Mixing

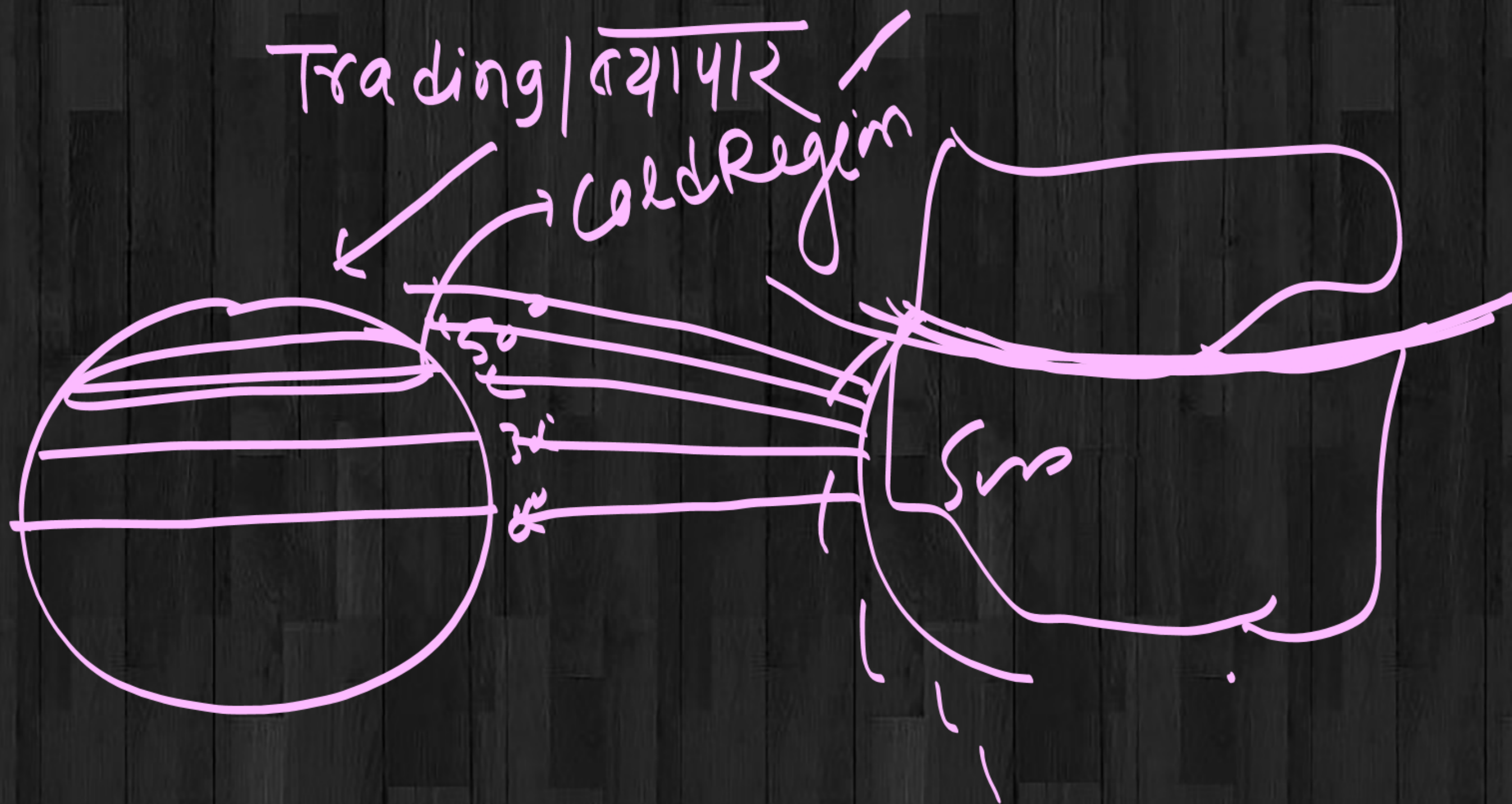
Fog कहरा

पल्लेकटन

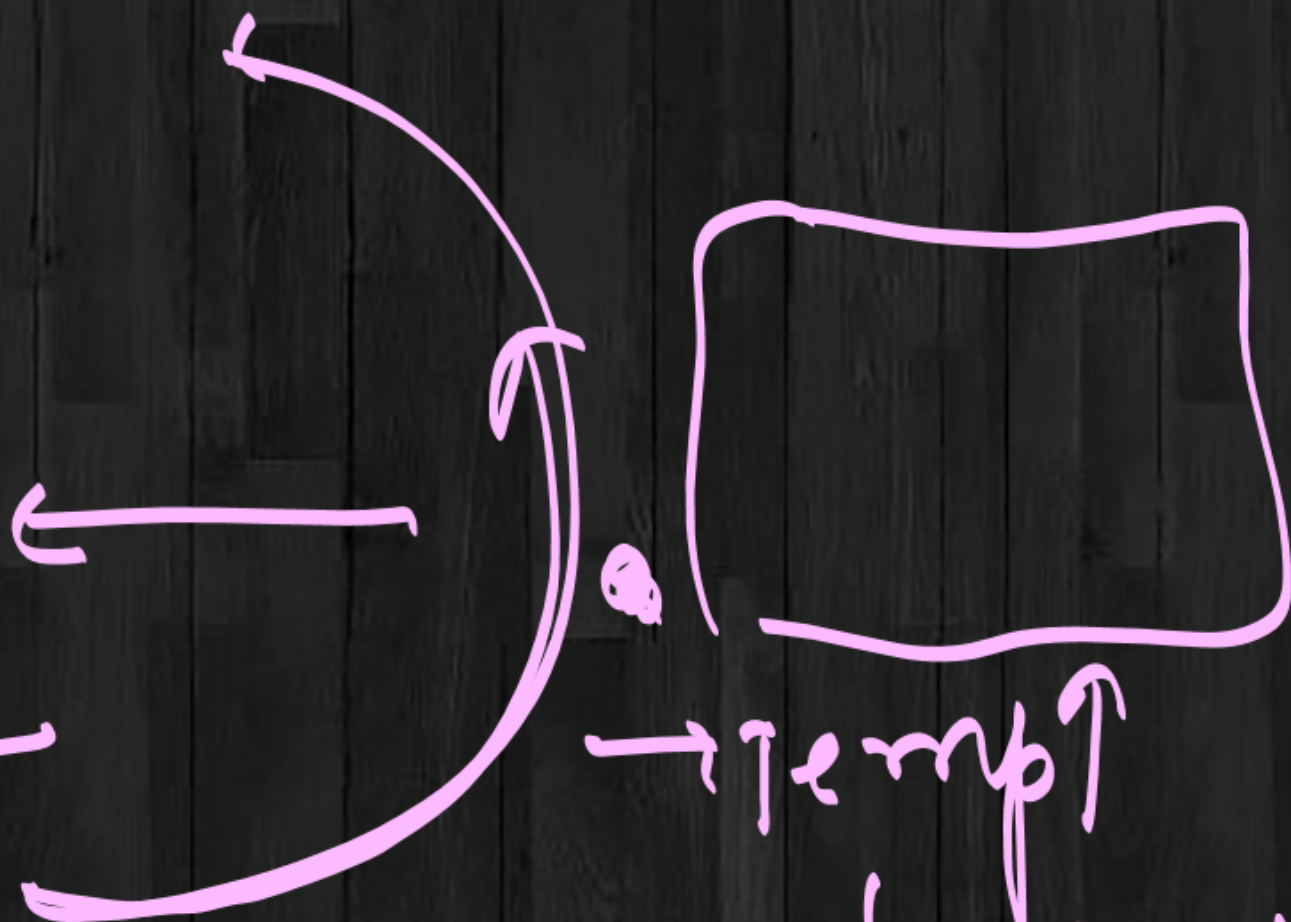
Cold current

जू-ल्लेकटन

मछली का मौजग



अलास्का की
गर्म जलधारा

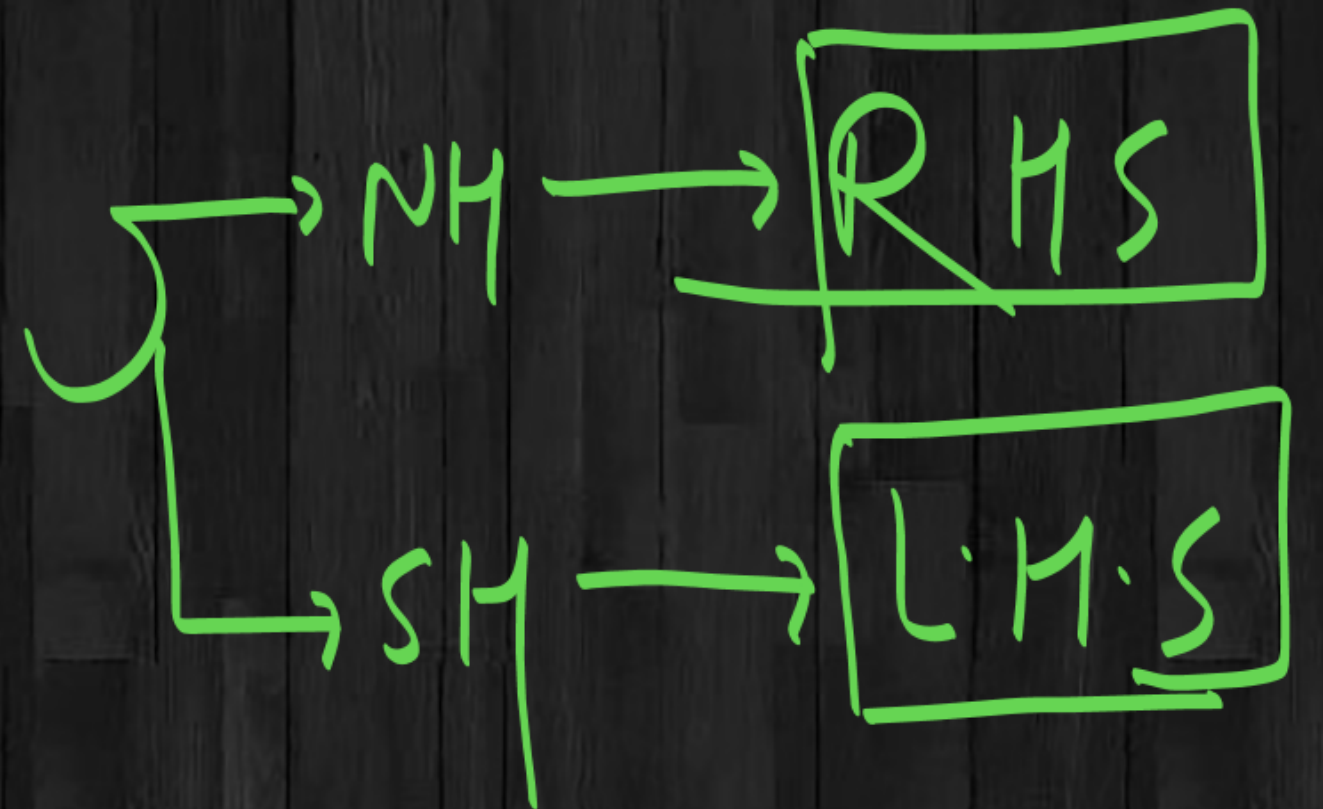


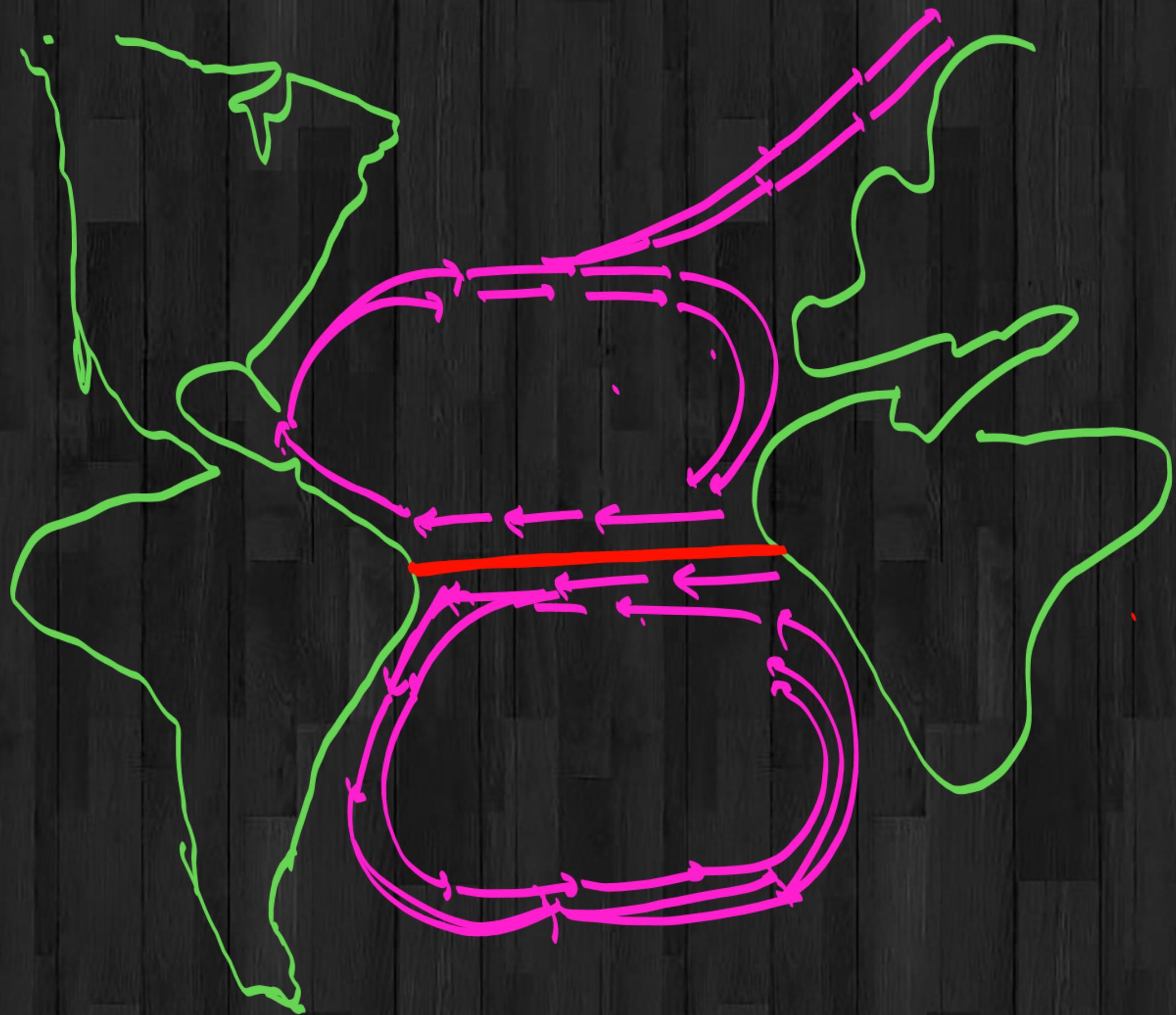
गर्म पानी

→ इन्टर-इल
नदी
बनेगा

CORIOLIS FORCE

કોરિયોલિસ બળ





Ekman flow

