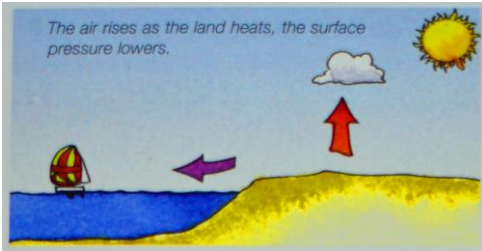
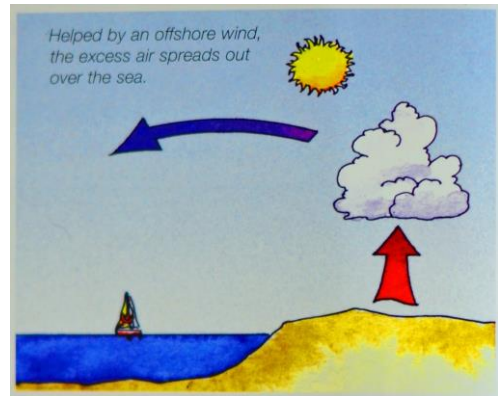


Formation of Sea Breezes

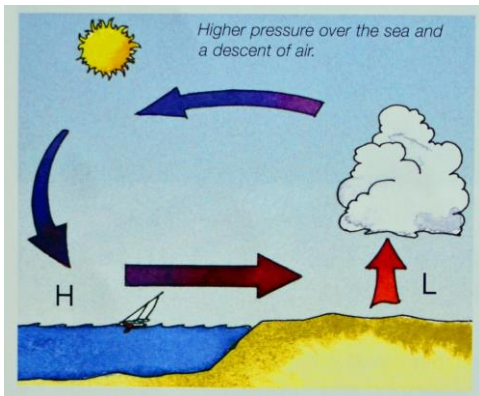


- Land becomes warmer than the sea
- air rises
- surface pressure lowers

Light offshore wind spreads air over the sea



On land cumulus clouds form as convection current builds



Air pressure over sea increases as air descends

Air moves from high to low pressure creating sea breeze

Sea Breezes

Requirements

Land warmer than sea

Light offshore wind

No major weather patterns

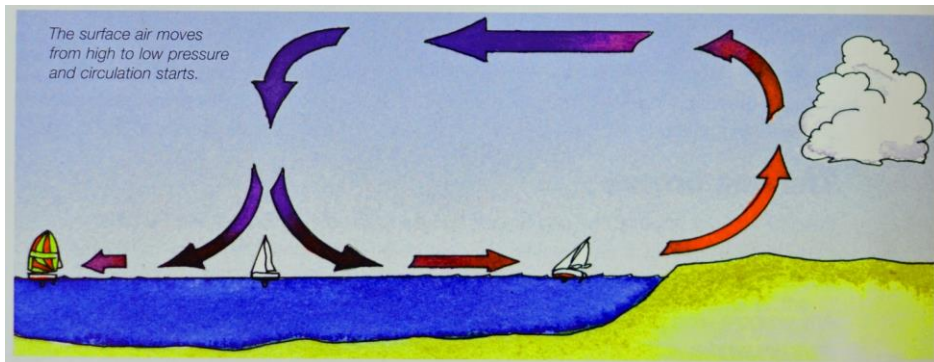
Slack pressure gradient

Cumulus clouds forming on land



Sea Breeze

Formation



- 1 - Land - heats up, air rises causing fall in air pressure
- 2 - Sea - air pressures increases as excess rising air drifts over it
- 3 - Air moves from high to low pressure creating sea breeze

During the day

Light offshore wind early morning

Calm period mid morning

Light onshore wind starts late morning

Builds and veers in afternoon

Maximum strength late afternoon