

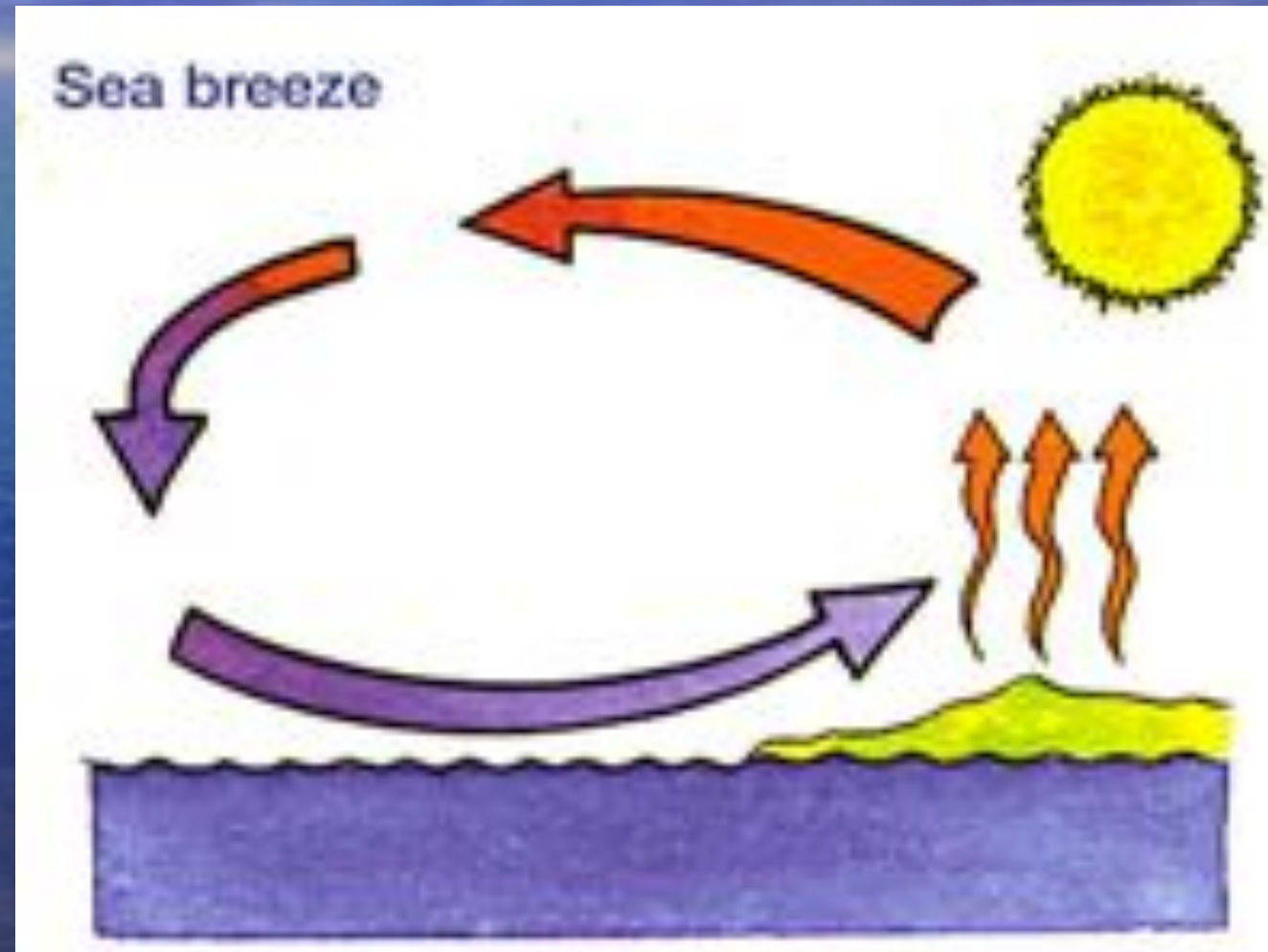
Sea Breeze -High Pressure

High Pressure
with isobars far
apart (little or no
gradient wind)

Sun heats the
land and sea.

Land warms
quicker (better
conductor of heat)
than sea

Warm air rises -
cooler air comes
in from sea to
replace it creating
onshore Sea
Breeze



High Pressure- Land Breeze

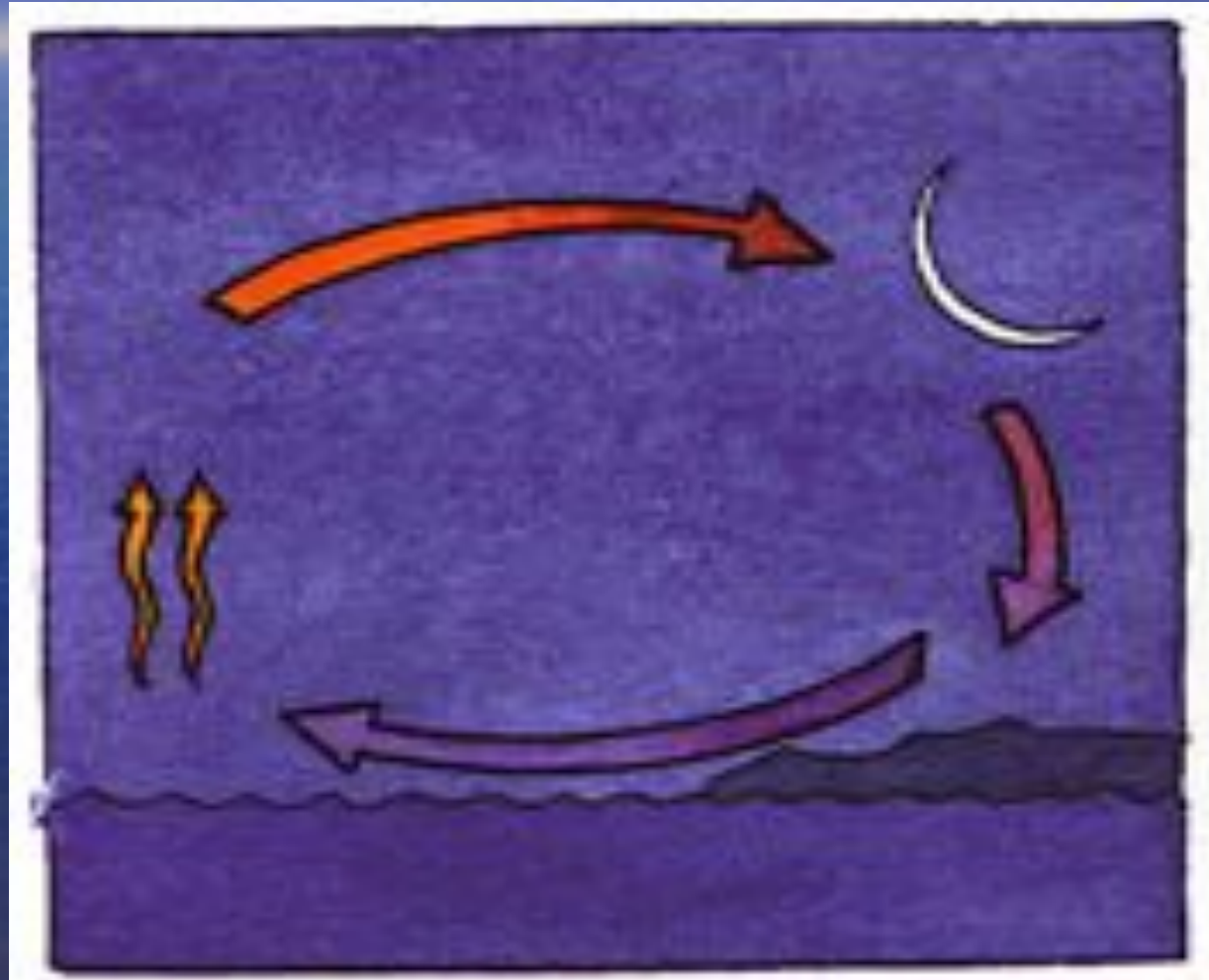
Opposite effect to
Sea Breeze

At night land cools
quickly

Sea (poor conductor)
has retained heat
from day

Warm air over sea
rises

Cooler air comes
from land to replace
it creating a light
offshore wind - the
Land Breeze



Local Wind effects

- Onshore wind



Local Wind effects

- Offshore wind
- Sea sheltered by land (hills or cliffs)
- Wind increases further out to sea



Local Wind effects

- Wind over tide
- Wind against tide
- Creates rough sea



Local Wind effects

- Long run - open sea
- Wind has big "fetch"
- Unobstructed wind so blows harder

