

Name: _____ Date: _____ Block: _____


Wind

(textbook pages 525-527)


1. Highs and Lows

Isobar: Lines on a map that connect areas of the same air pressure

High Pressure Center: - an area of High pressure
- Pressure is higher here than in surrounding area

Low Pressure Center: - an area of Low 
- Pressure is lower here than in surrounding area

What does it mean if isobars are close together?

- air pressure is ing quickly
- high wind

What does it mean if isobars are farther apart?

- air ~~pressure is~~  changing slowly

2. Winds

Winds move from areas of HIGH pressure to areas of LOW pressure.



Pressure-Gradient Force: the force that makes the wind blow.

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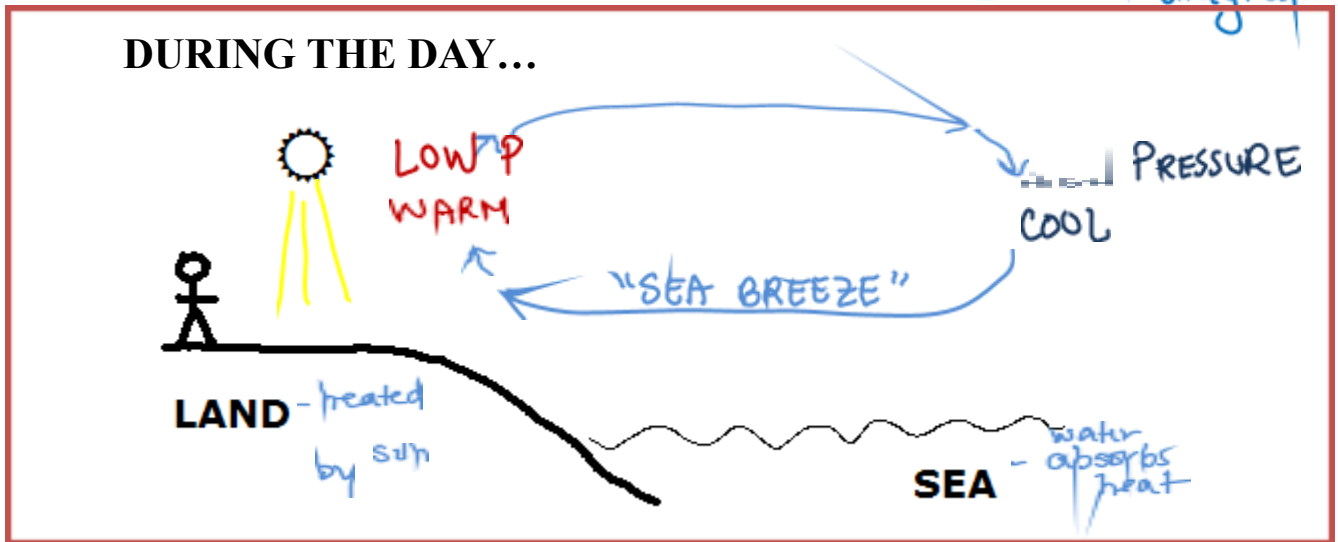
* Placemat box #3

* Draw opposite

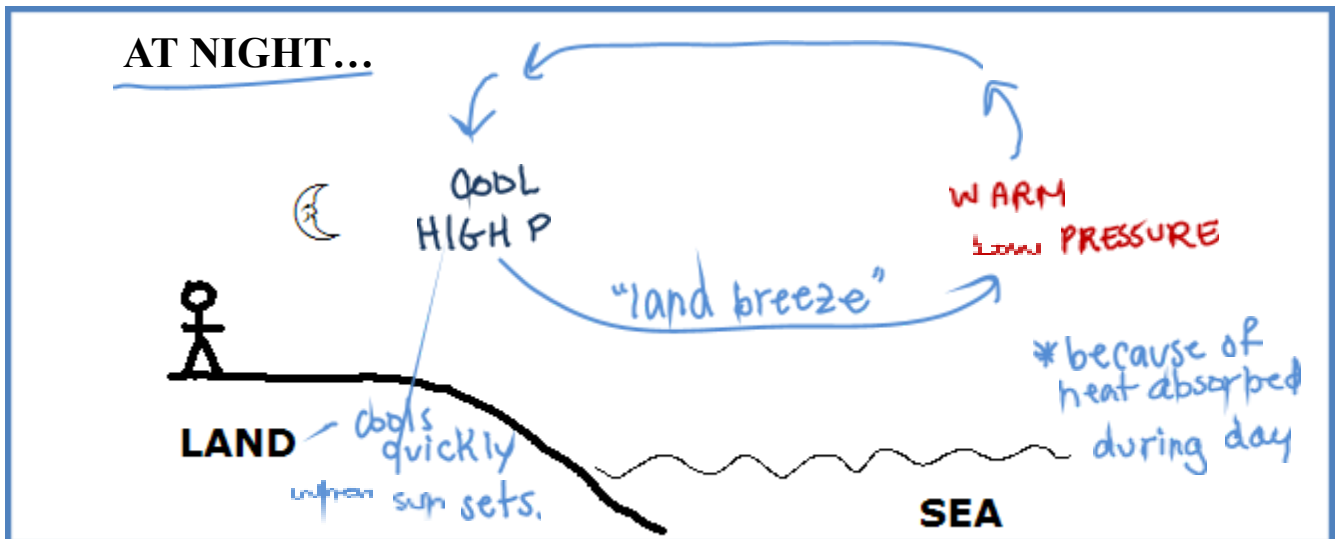
= to these diagrams

3. Local Winds - Land and Sea breezes (page 527)

DURING THE DAY...

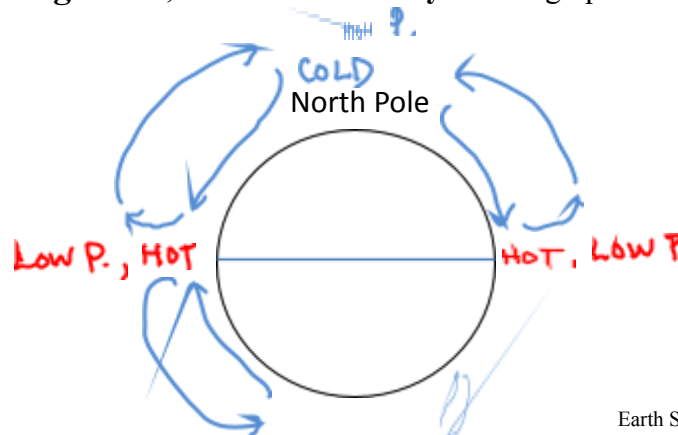


AT NIGHT...



World Wind

On a non-rotating earth, winds blow **directly** from high pressure areas to low pressure areas: (pg.531)



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South Pole

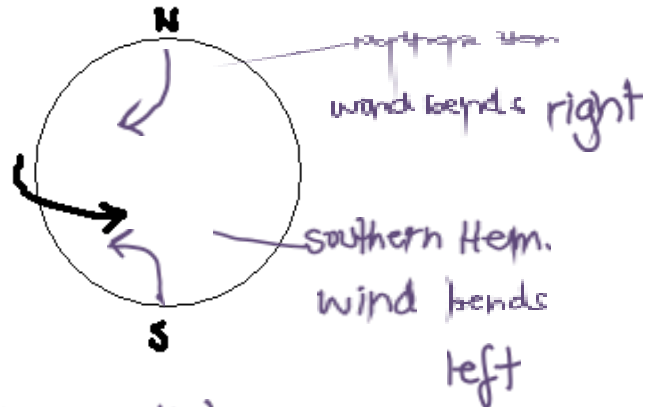
COLD

The Coriolis Effect

- When talking about larger areas, the wind does not blow directly from High P. to Low P. areas

1

- Remember that the Earth rotates!!

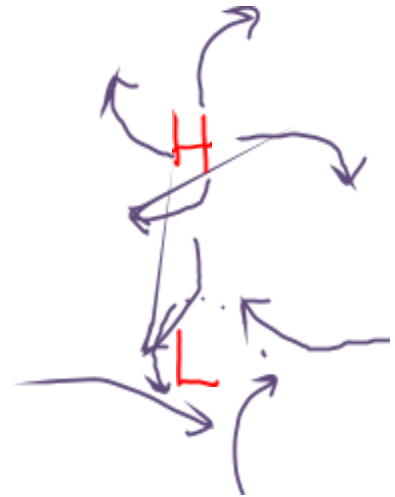


Anticyclonic: winds moving away from a High

Cyclonic: winds moving towards a low center

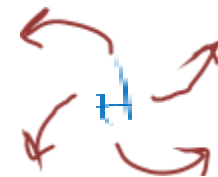
A) In the *NORTHERN HEMISPHERE*...

- Air flowing from a High Center turns clockwise (anticyclonic)
- Air flowing towards a Low center turns counterclockwise (cyclonic)



B) In the *SOUTHERN HEMISPHERE*...

- Air flowing from a High Center turns counterclockwise (anticyclonic)
- Air flowing towards a Low center turns clockwise (cyclonic)



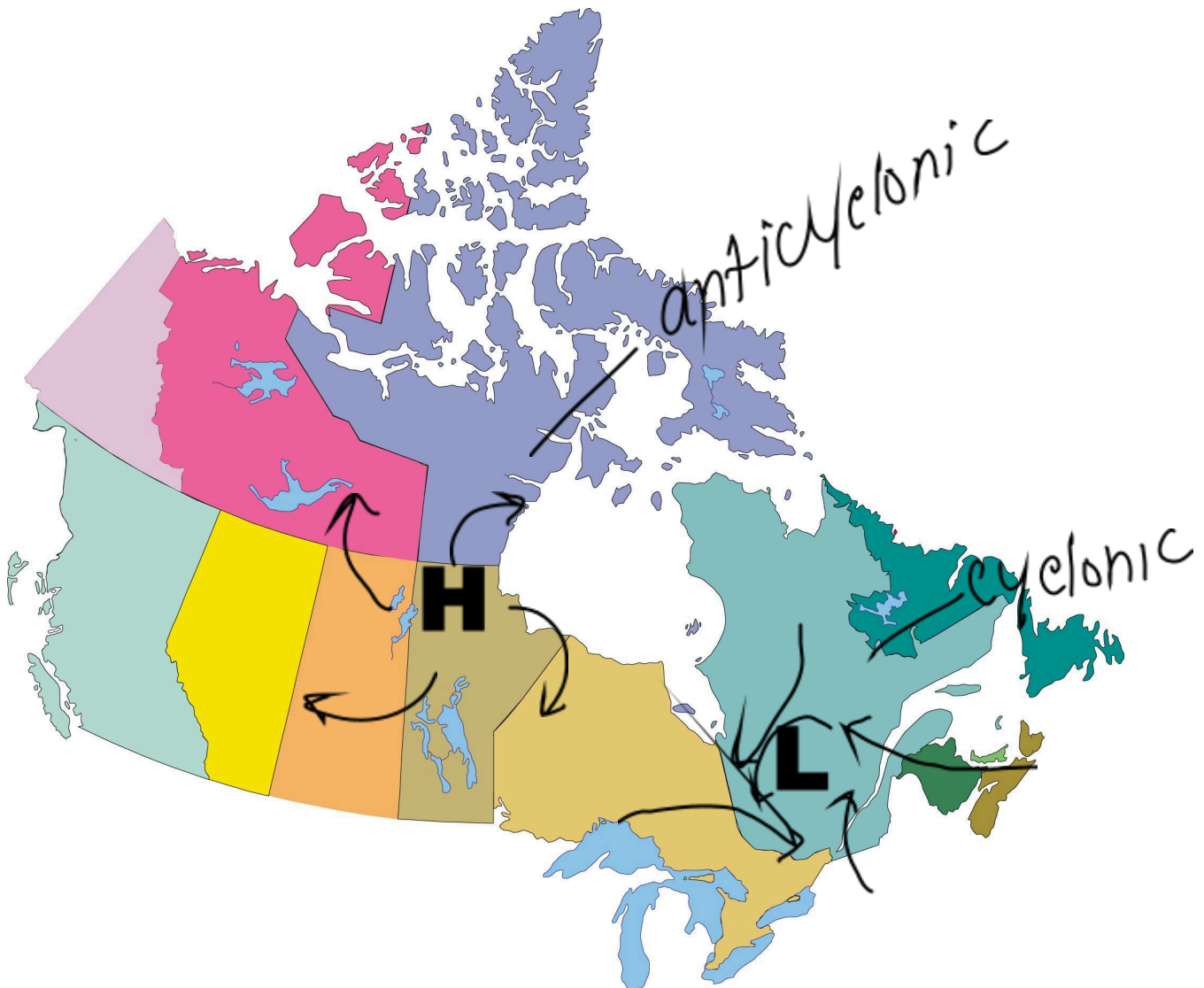
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CORIOLIS IN THE NORTHERN HEMISPHERE

Canada is in the Northern Hemisphere. Draw arrows to indicate how winds will blow around a high and low taking into account the Coriolis Effect.

From a HIGH center: clockwise

Towards a LOW center: _____



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