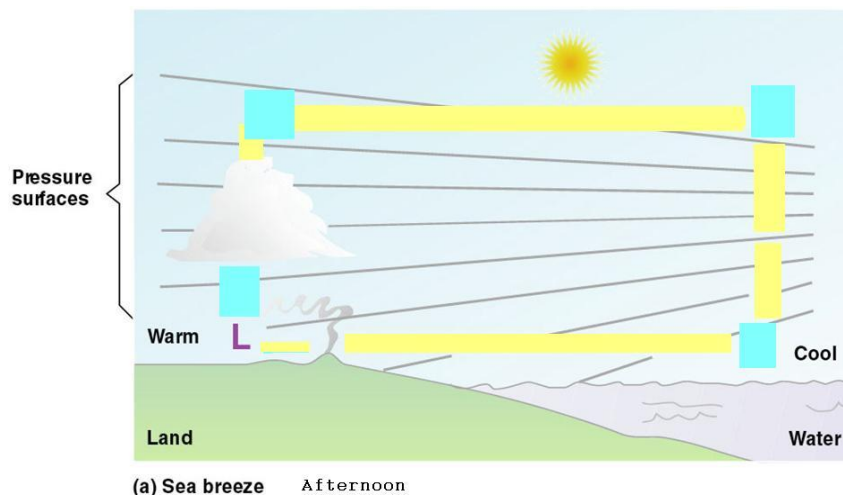


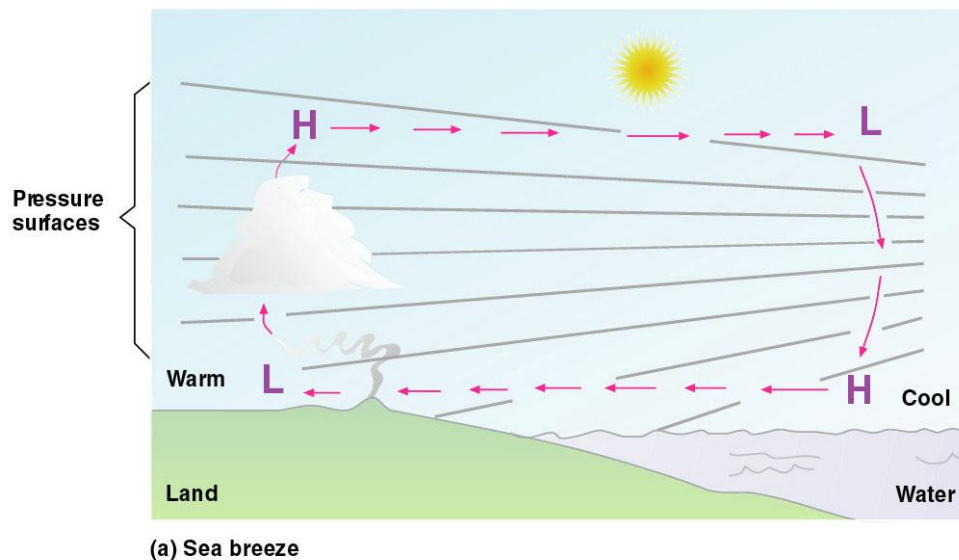
## Thermal circulation Study Guide

- Air typically rises above a surface (**Low/High**).
- Warm air rises from the surface creating a surface low. Higher up in the warm column the air pressure is normally (higher/lower) than in the surrounding air.
- The surface air pressure is normally (**high/low**) where air is sinking (subsiding).
- Clouds form when air **rises/sinks**.
- Clouds usually form over the (land/ocean) for a sea breeze.
- Clouds usually form over the (land/ocean ) for a land breeze.
- Clouds usually form on the slope of a mountain during a (mountain/valley) breeze.
- During the summer monsoon of southeast Asia rain fall is (higher/lower) than normal over land.
- During the winter monsoon of southeast Asia rain fall is (higher/lower) than normal over land.
- The monsoon of the US southwest during August is associated with (wet/dry) conditions.
- The figure below shows warm land adjacent to cool ocean in the afternoon. Yellow boxes need arrows to indicate the direction of flow and the blue boxes need H (high) or L(low) to indicate High or low pressures. Is this a land breeze or a sea breeze? Label the yellow boxes with arrows to show the direction of the circulation pattern. Label the blue boxes, areas of relatively High and Low pressure, with H and L.



Answers in red.

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Notice the cloud forming in the afternoon limits the heating on the land and controls the strength of the sea breeze.