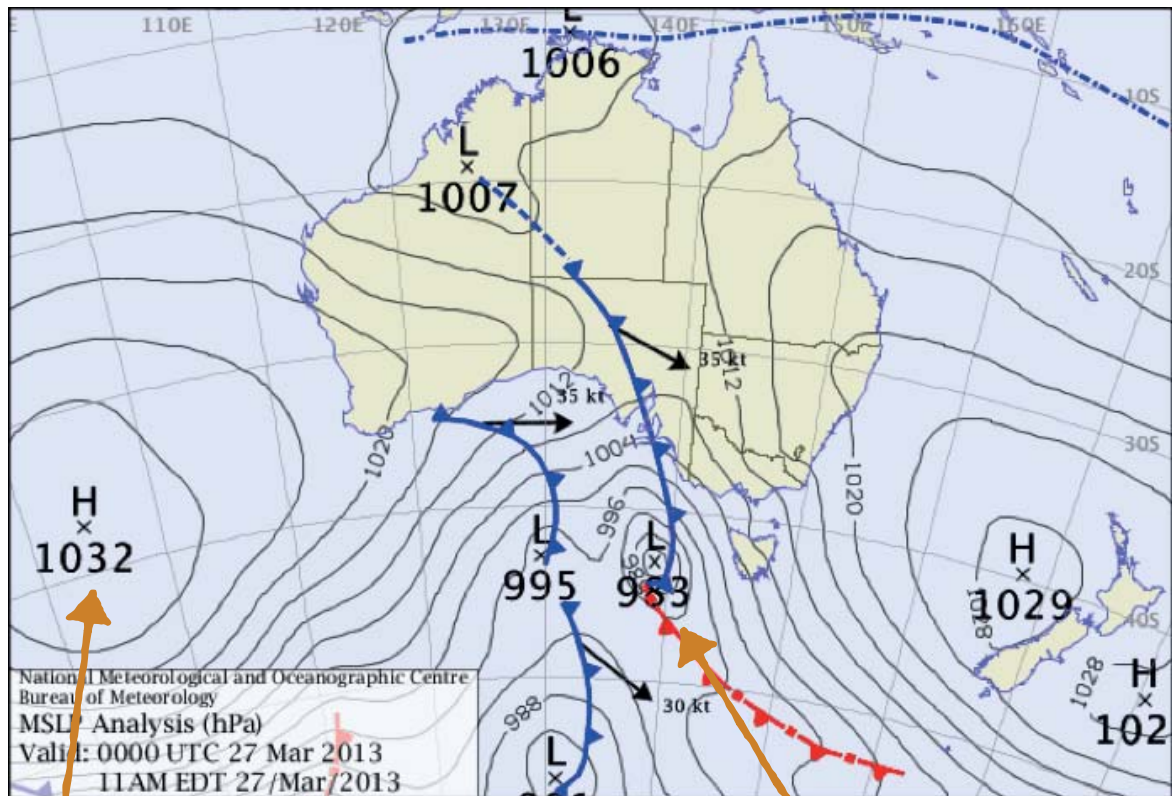


The weather is made by the heating and cooling of the air, land and water.
 This makes pressure differences across the planet
 A synoptic chart is a map of pressure difference and weather systems.
 Mariners read this map to forecast the weather



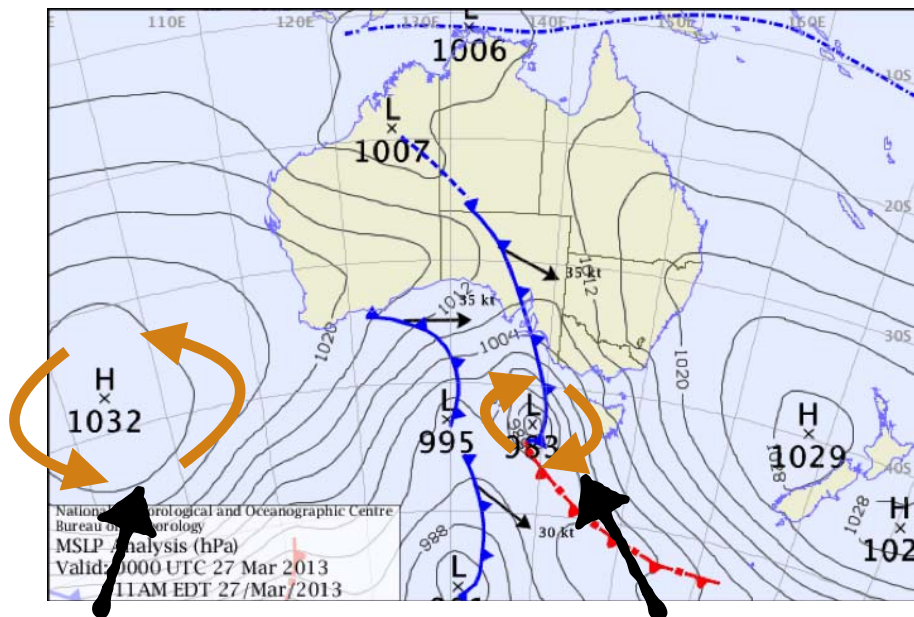
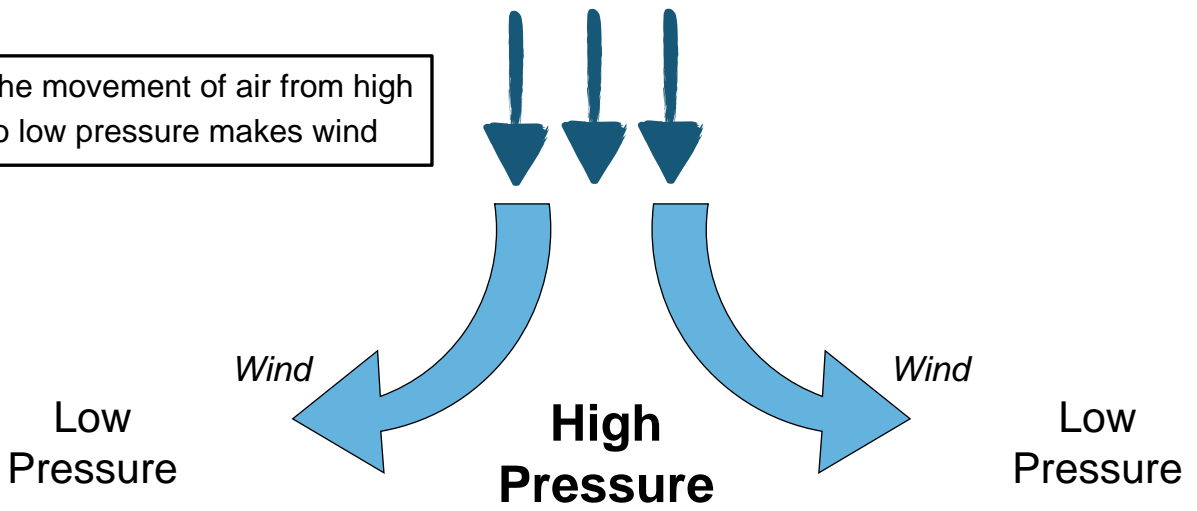
High Pressure System
H
 1032 hPa

Low Pressure System
L
 983 hPa

Pressure is measured
 in **hectopascals**
 hPa

Heavy air presses down

The movement of air from high to low pressure makes wind

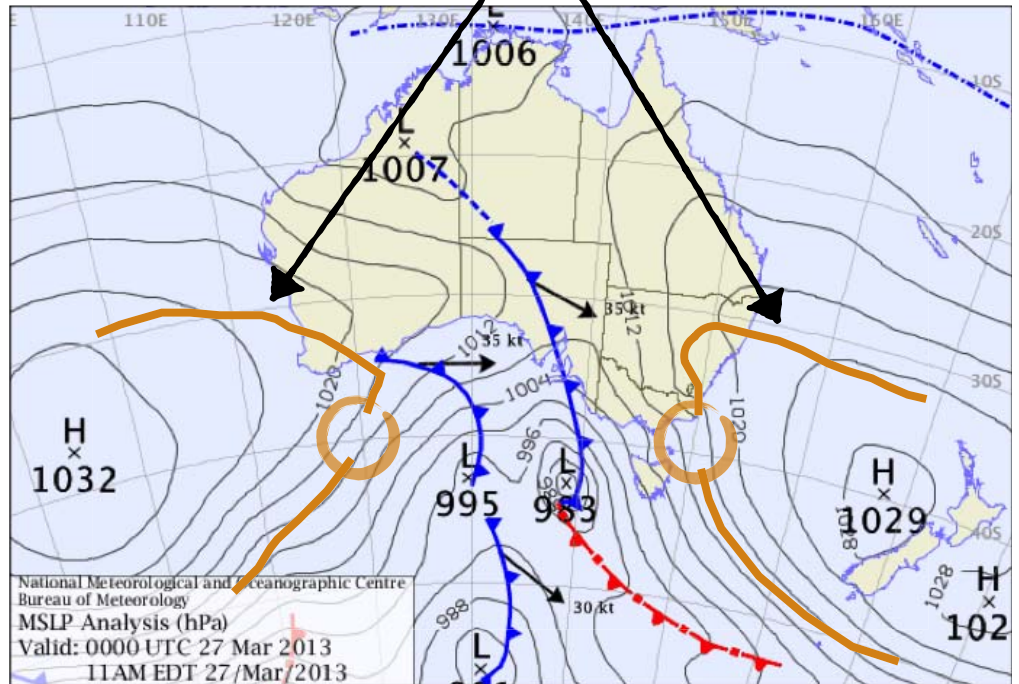


High Pressure System
Wind Rotates Anticlockwise

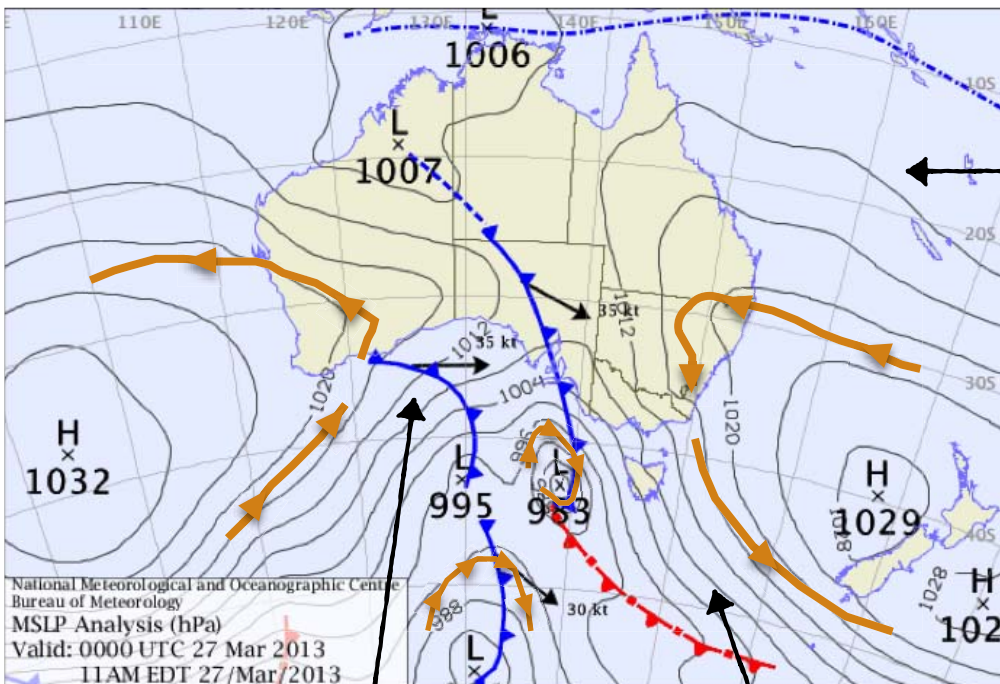
Low Pressure System
Wind Rotates Clockwise

Lines of equal pressure are called isobars.
Pressure is the same along an isobar.

Isobars



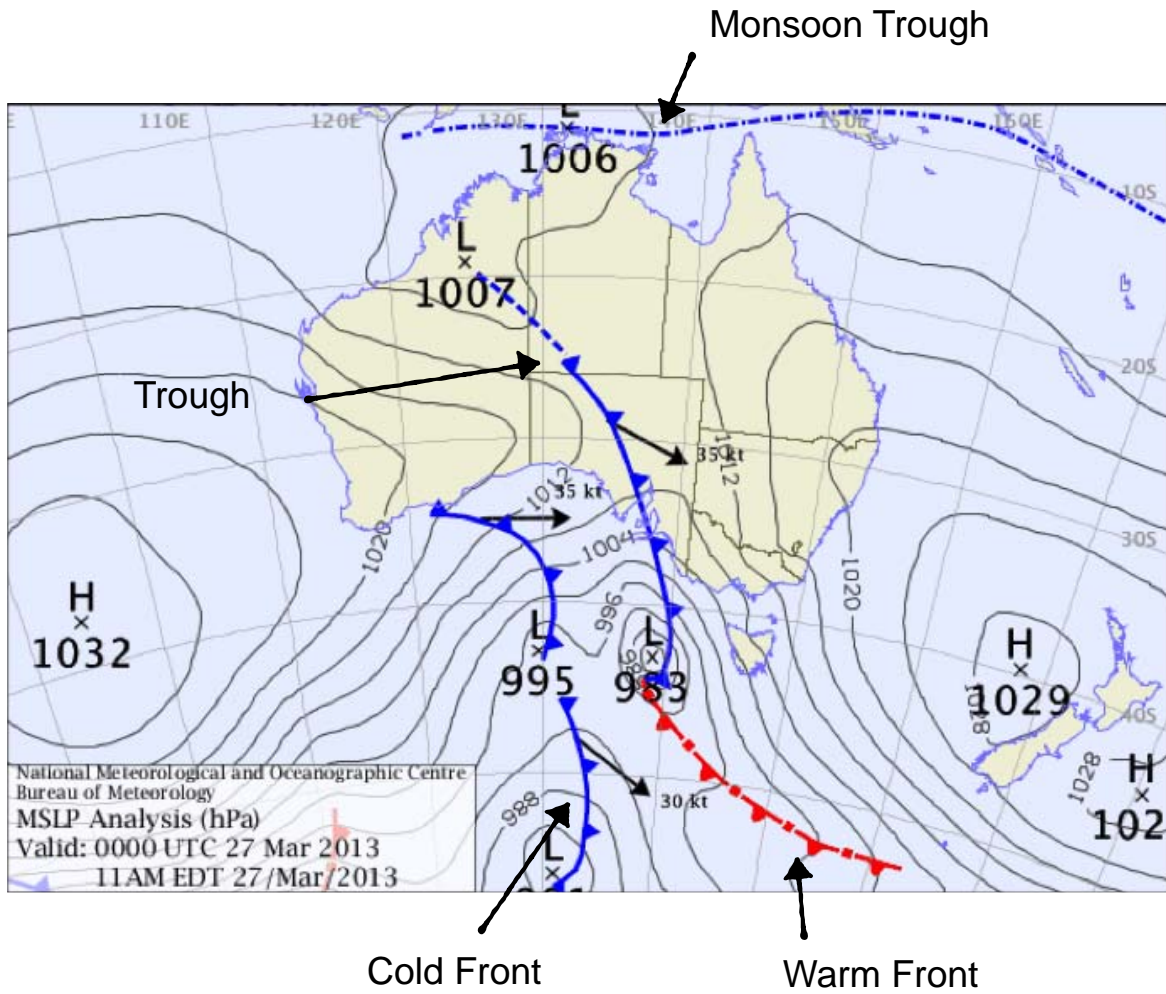
Winds travel in the direction of isobars



Isobars far apart
Lighter winds

Wind speed and
direction

Isobars close together
Strong winds



Cold Front
Wind, Rain, Storms



Warm Front
Drizzle



Trough
Unsettled, Storms



Monsoon Trough
Wet Season Storms

