March 29 Weather Notes

Atmospheric Pressure	
Pressure caused by the	of air above an area.
Pressure with increasi	ng height above Earth.
! Square inch column of air weight	pounds.
Air Pressure	
Air Pressure is measured with a barometer in	
Average barometric pressure at sea level is 1 inches of mercury.	013.25 mb or
pressure – cold dense air t	that creates pressure on the
pressure – warm air is less barometer.	creating less pressure on the
High pressure	
As air cools, it become spinning	and sink toward the Earth's surface
Low Pressure	
As air warms, it becomespinning	and rises above the Earth's surface
Weather in High and Low pressure	
High Pressure	Low Pressure
Isobars	
A line connecting points of equal	
Measured in	
One mh is equal to incl	



Low pressure in storms		
graphic and the second	mb.	
	mb.	
Air Masses		
Large body of air that has relatively uniform	and	
Originate over land	over water	
Cold air masses tend to approach from		
Warm air masses tend to approach from	·	
Frontal Movement		
Cooler air masses are more dense an warm and	d flow toward areas that are	dense,
pressure areas move into	pressure areas.	
Front		
The boundary betweenair ma	isses.	
Classified by which type of air mass (cold or warm) is replacing the other.	
Map symbols point in direction front is		
Cold Front		
A cold air mass is a warm a	ir mass.	
Air behind the front is colder and	Pressure	
Moist air is pushed up over the	air	and
form ale	ong leading edge of front.	
Warm Front		
A warm air mass is replacing a		s
and Pressure goes		
Slow moving, gradual rise of warm air over		
Widespread, continuous	occurs along and ahead of t	the front.
Stationary Front		
A boundary between two different air masses, ne	either is	
Enough to replace the other Light	over several days	



Occluded Front	
Two cold air masses converge on a	air mass.
Occurs when a fast-moving cold front over	ertakes a front pushing it up and over
form a	long the front. After frontal passage the sky is
and	
Back Door Cold Front	
Approaches from the east or northeast.	The term Is most commonly
	ntic maritime air moves in from the east and replaces
Weather Instruments	
measu	res atmospheric pressure in
measu	es wind speed in
measu	es temperature in
carries	instruments to high altitudes.
helps d	etermine wind direction on weather maps.
measu	re wind direction in
Warm Front	
A warm air mass is replacing a	air mass. Air behind the front is
and Pressure goes _	·
Slow moving, gradual rise of warm air over	er
Widespread, continuous	occurs along and ahead of the front.
Stationary Front	
A boundary between two different air ma	isses, neither is
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