

National Weather Association Aviation Meteorology Committee

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NAVIGATION

START (From Beginning)



PAUSE



PLAY (After Pause)



STOP (At End)

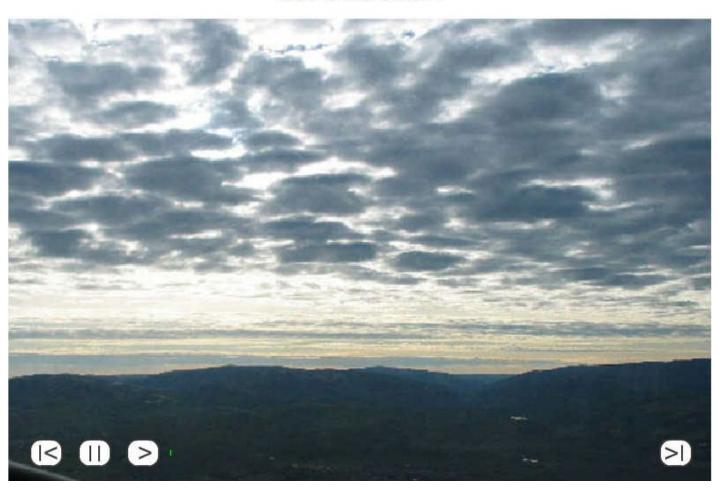


Note

Allow animation to finish or "Click" STOP to diable audio before preceeding to another page.



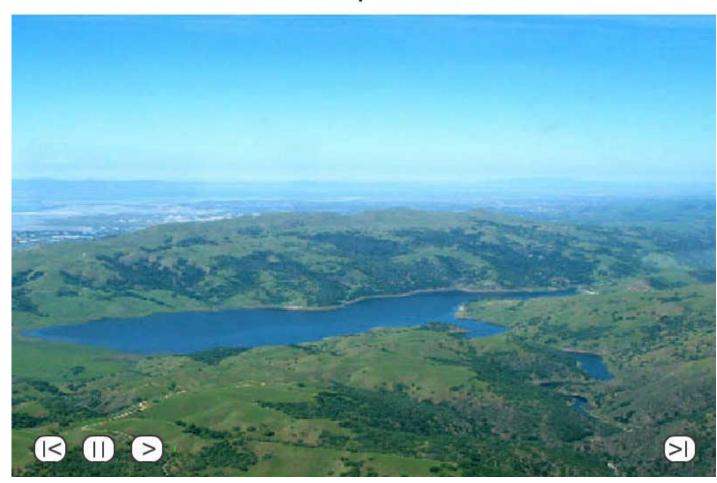
Introduction





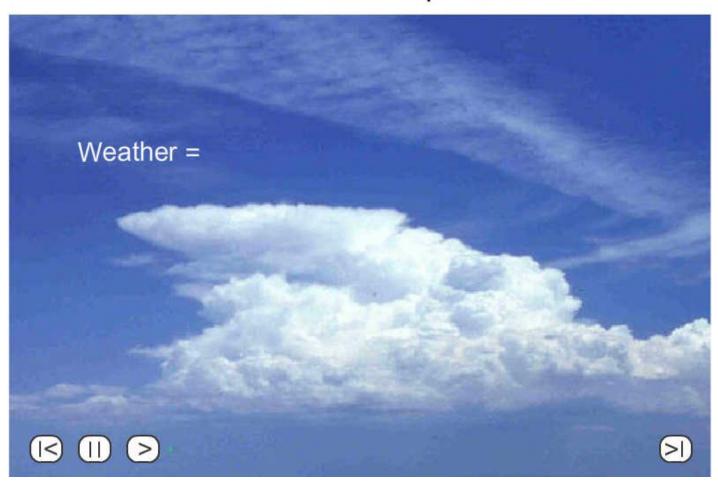
primrose path—To be lead down a particular track. Describes a road of ease, apparent least resistance; often used to express a route to disaster.

Oversimplification



For an additional explaination of Lapse Rate refer to the Stability Module.

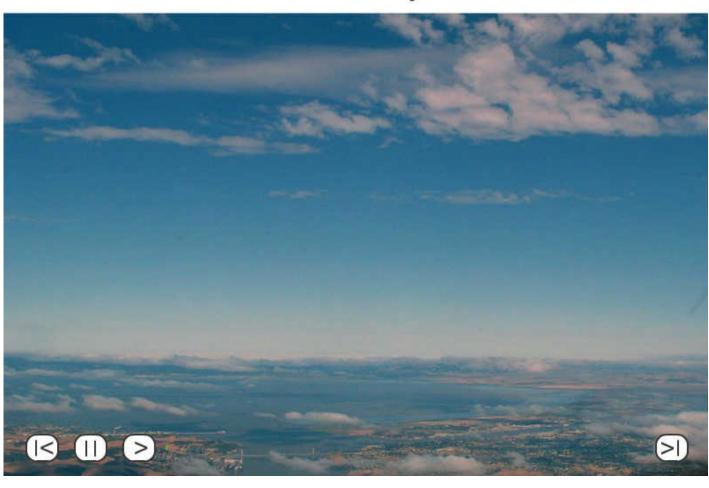
The Weather Equation



Moisture/Vertical Motion/Stability

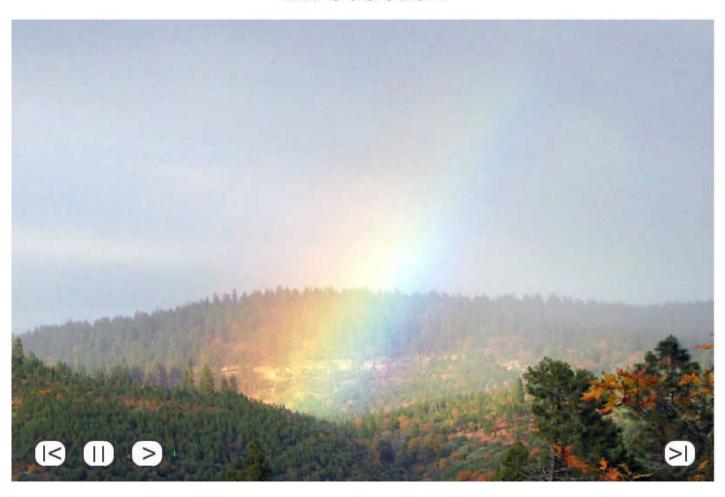


Summary

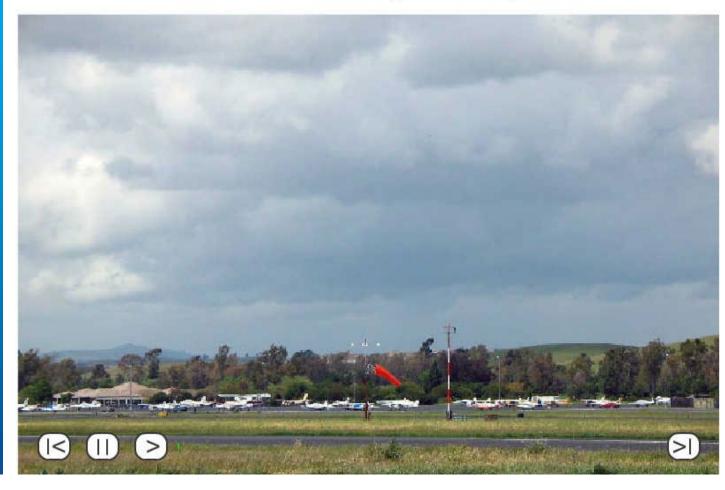


Introduction

Introduction

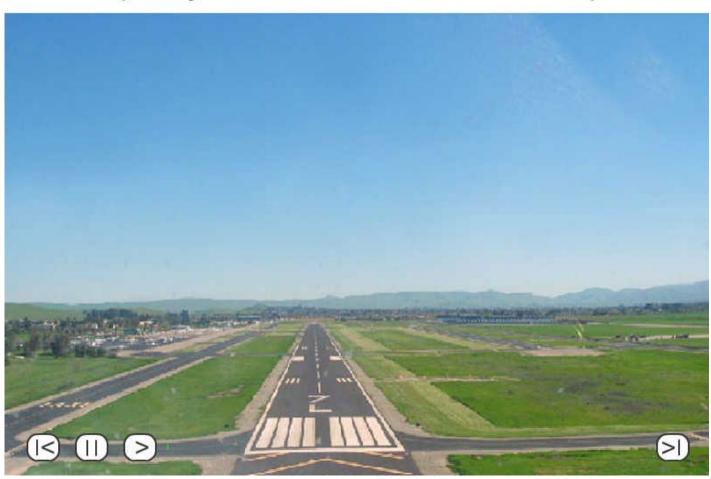


Relative Humidity & Dewpoint

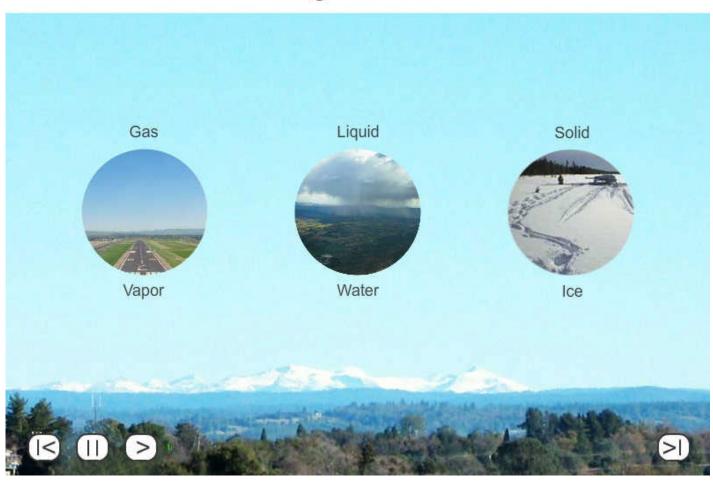


Recall that we stated: "...some of the theory and explanations we'll discuss are oversimplified." Air does not "technically" HOLD WATER VAPOR; this description is merely an analogy.

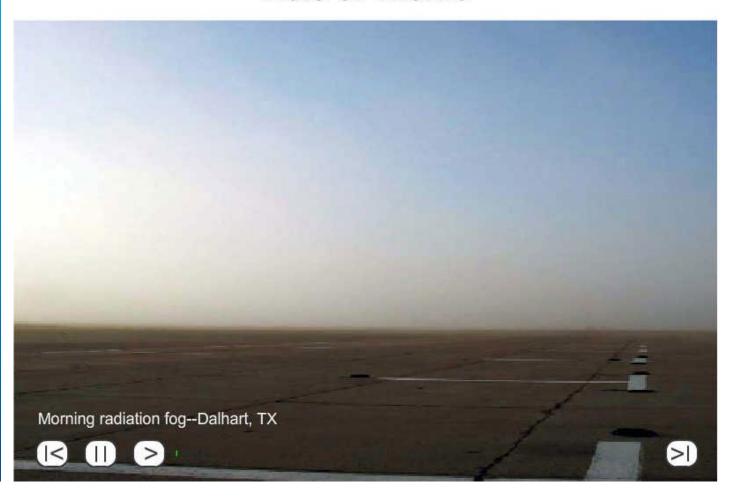
Capacity of the Air to Hold Water Vapor



Change of Phase

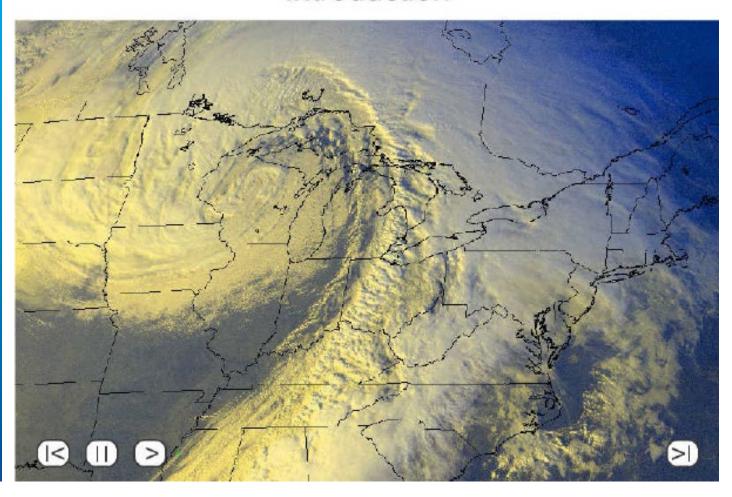


Rule of Thumb

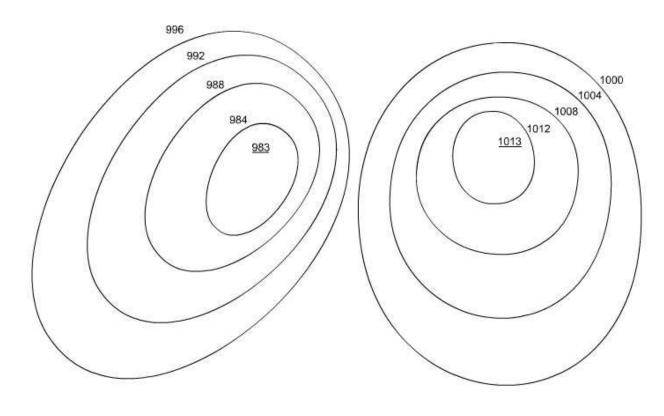




Introduction



Convergence/Divergence



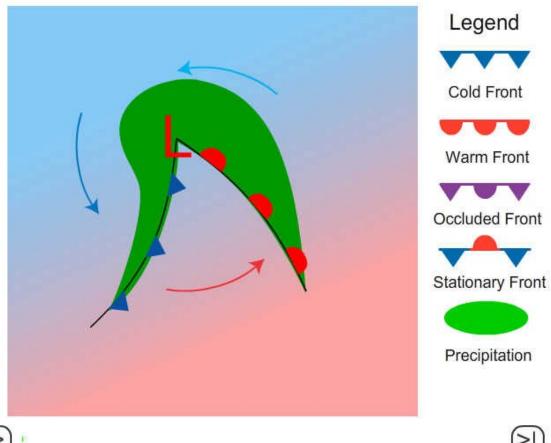








Fronts/Drylines











Convection/Warm- Cold-Air Advection







Upslope/Downslope

intermountain region—The area of the western United States, west of the Rocky Mountains and east of the Sierra Nevada Mountains, which includes Idaho and Arizona.

rain shadow—One effect of terrain is "rain shadows." This predominately occurs in the west. Pacific storms shed most of their moisture over the Cascades of Washington and Oregon, and Sierra Nevada of California. This results in semiarid climates east of these mountain ranges.

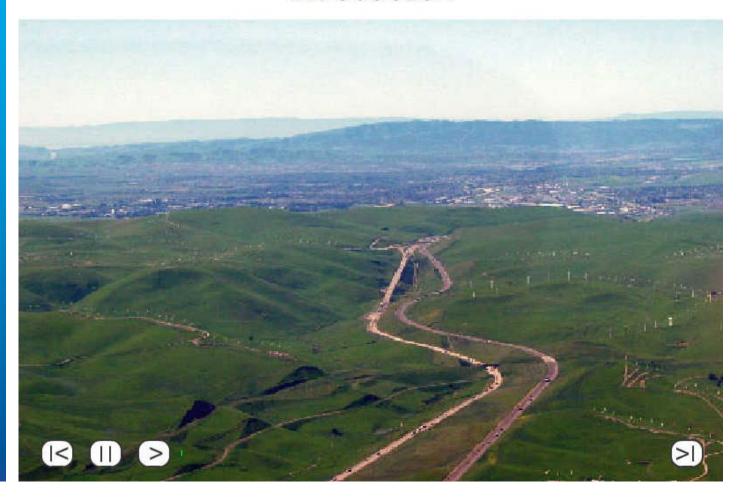


Determining Areas of Vertical Motion

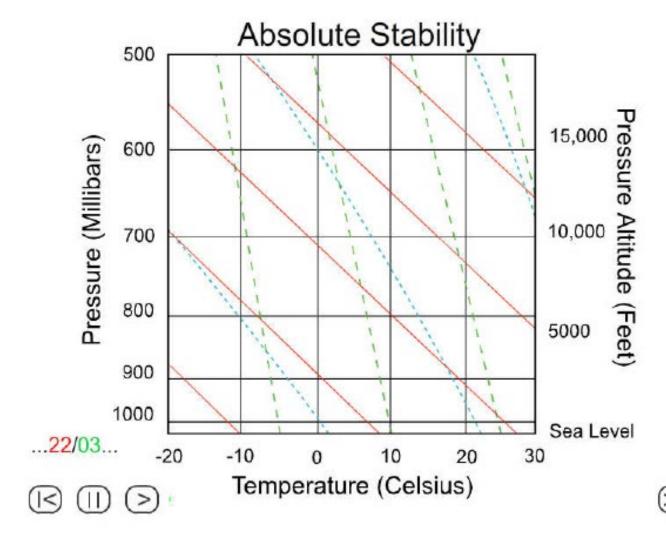


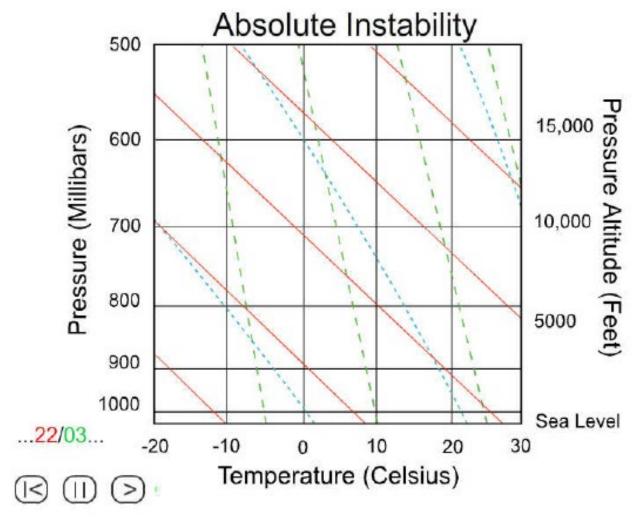
Don't become overly concerned about this discussion of stability, it's background information that will help your understanding of the "weather equation" and the material in subsequent blocks and modules.

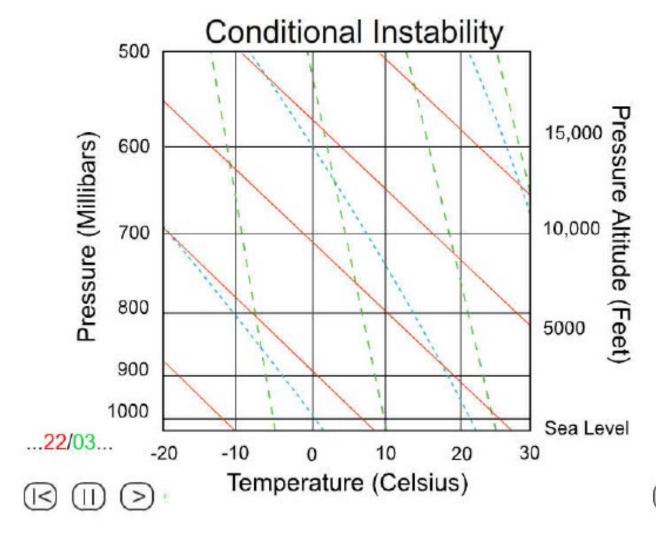
Introduction











Vertical Motion vs. Stability

Convection





Stable

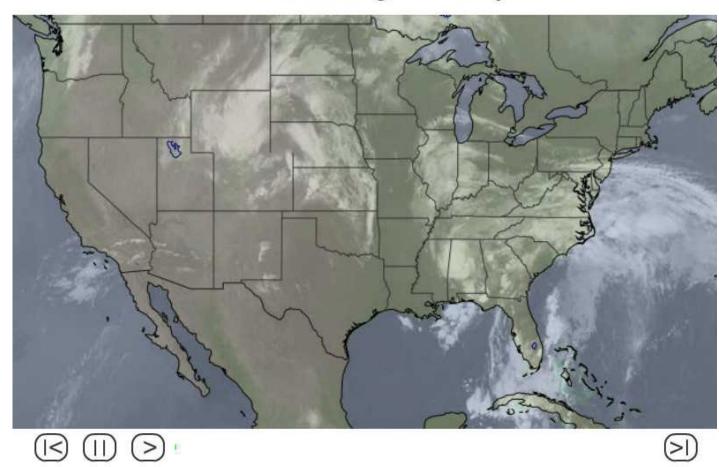
Unstable







Determining Stability



Acknowledgements

