

Summary for March 19-21 2010

An upper trough sharpened over the Rockies, sending a cold front southward through the Plains. Low level upslope flow helped to enhance an area of snow in excess of 8 inches along the Front Range. The trough quickly evolved into a very deep closed low over the southern Plains, well displaced from the northern stream. Strong dynamic cooling beneath the upper system produced a batch of heavy snow from Oklahoma to western Missouri as the surface center developed over the Mississippi Valley. Thereafter, some snow occurred on the northwestern fringe of the precipitation shield from Iowa to northern Illinois, but boundary layer temperatures modified and prevented additional heavy snow with this system.