

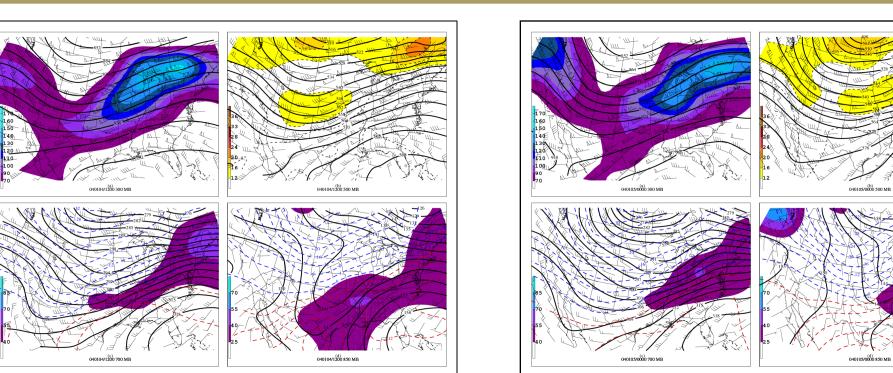
Figure 44: 1200 UTC

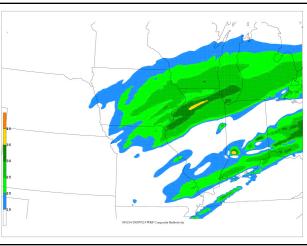
Figure 45: 1500 UTC

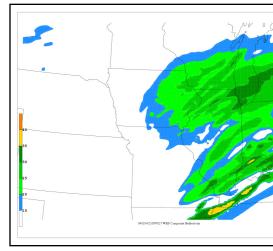
Figure 46: 1800 UTC

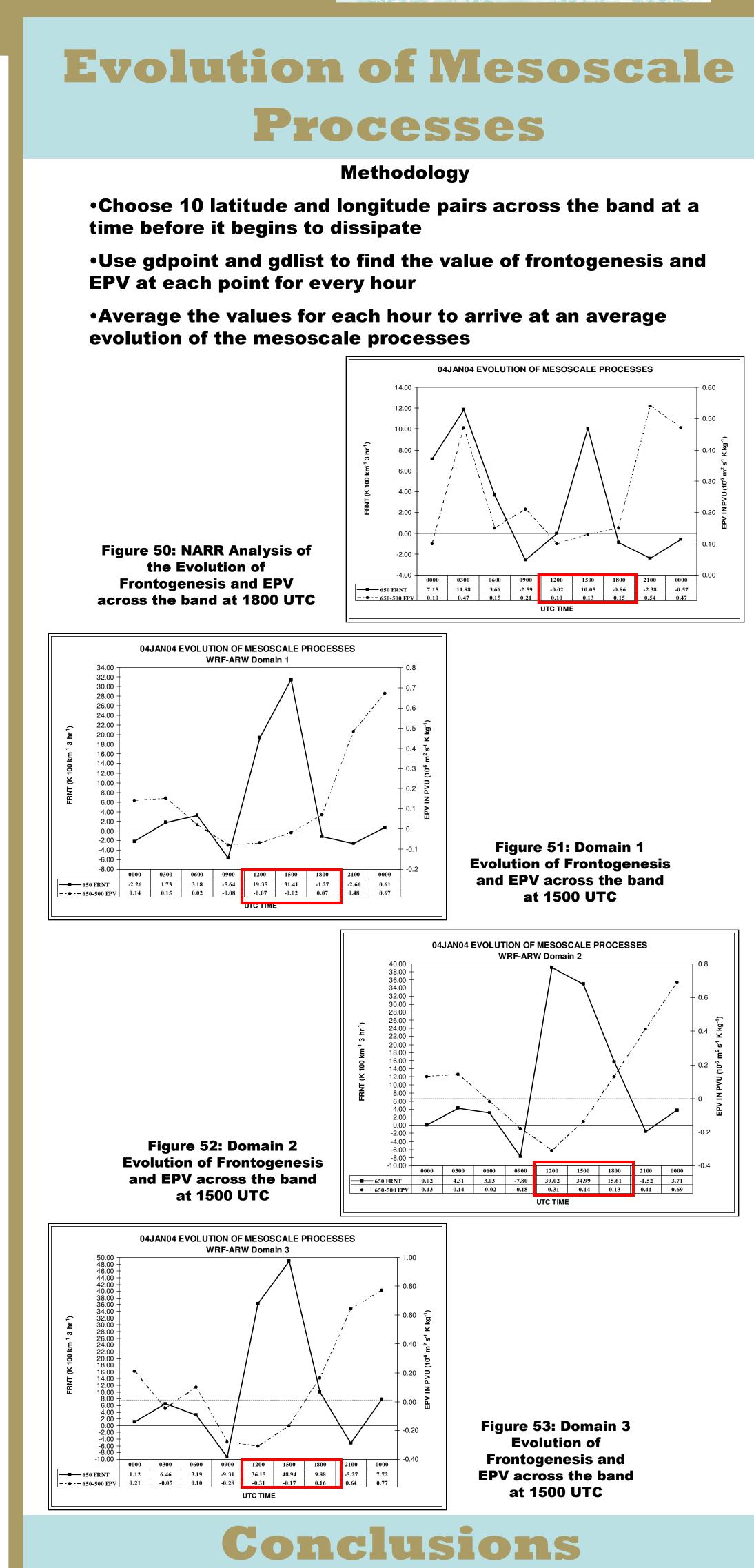
Figure 47: 1200F18 UTC











•WRF-ARW simulation does create a band, but farther south than the observed band

•It does not accurately simulate the long, narrow band due to the grid size and weak frontogenesis associated with its development

•WRF-ARW produces the mesoscale processes, but at a greater magnitude

•NARR analysis and WRF analysis depict an evolution of frontogenesis and EPV that shows a positive feedback between them

 This study can be continued by simulating more cases to see if WRF-ARW can accurately resolve the evolution of more cases.