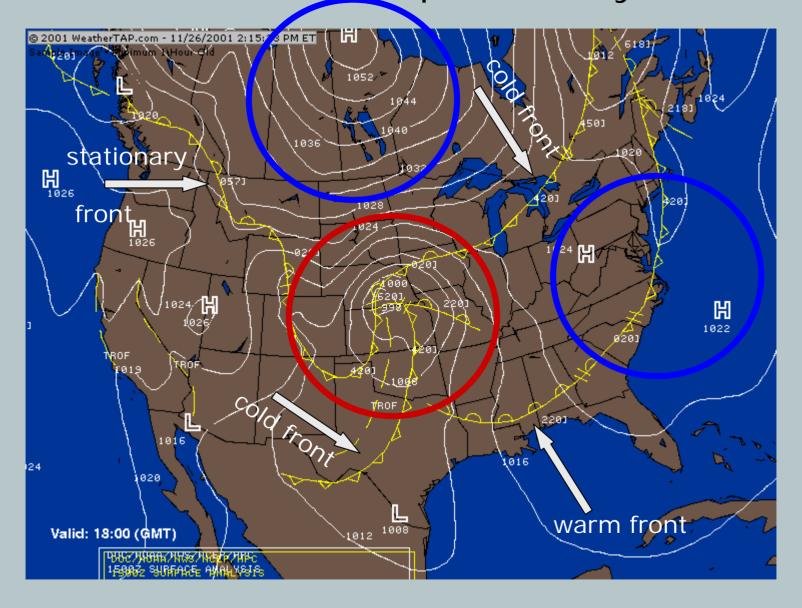
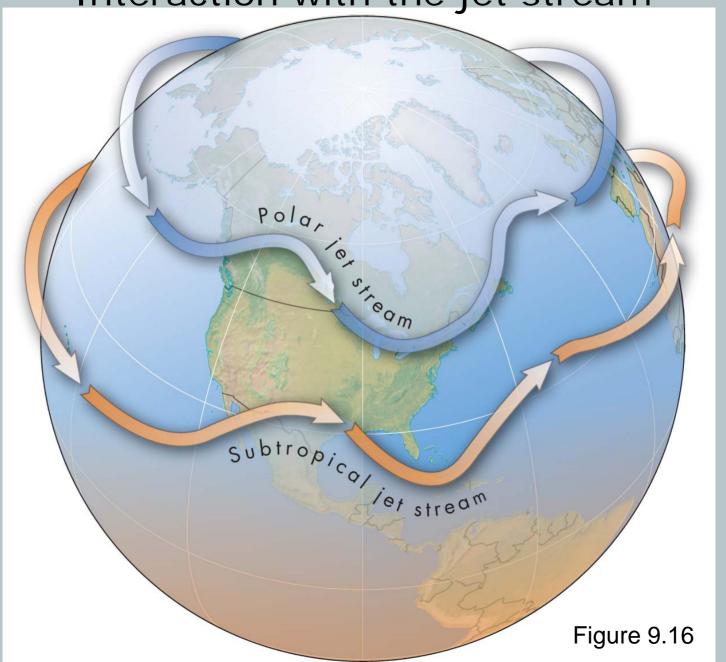
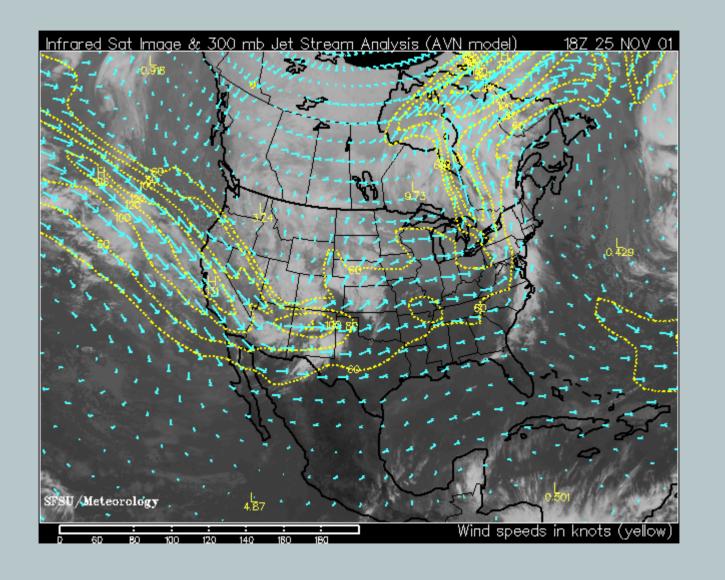
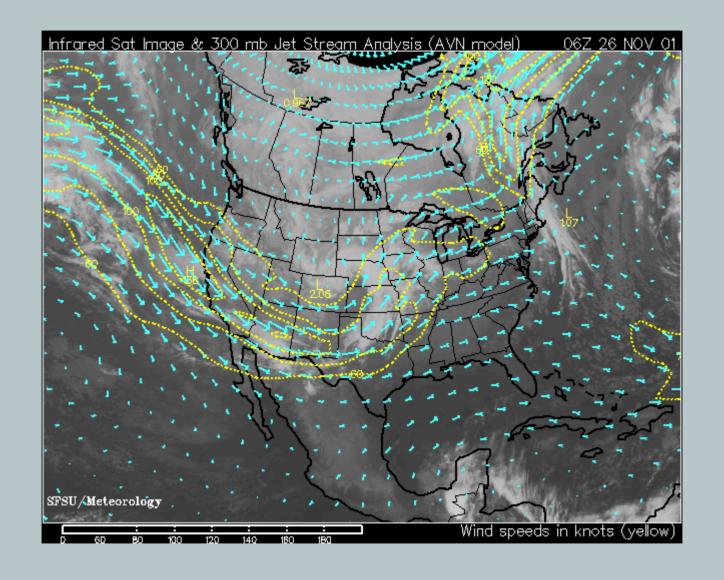
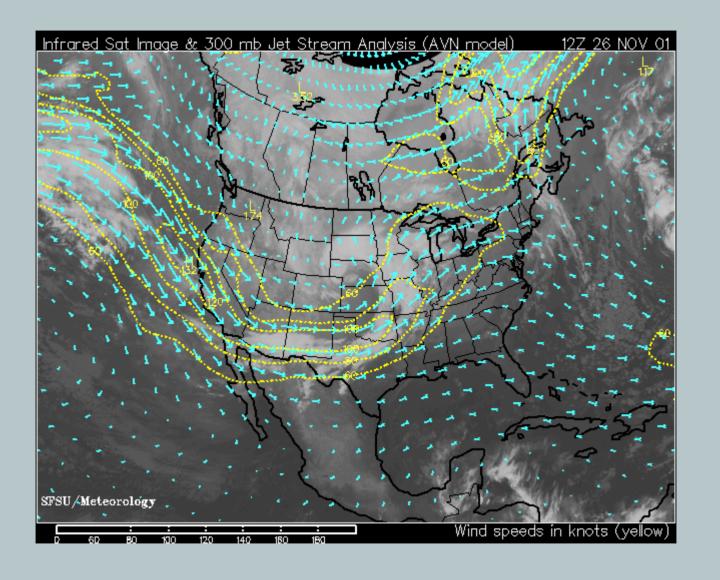
# Mid-continent low pressure system

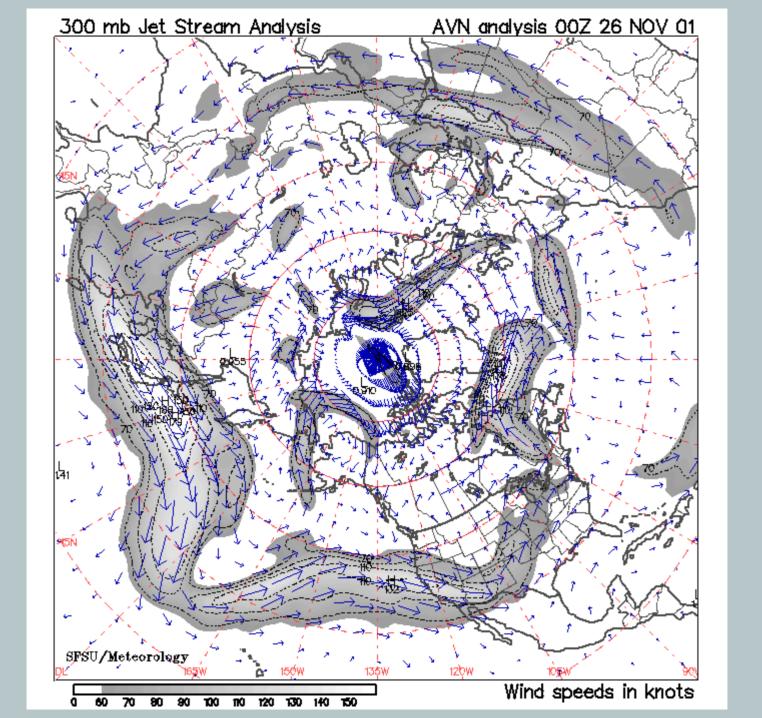


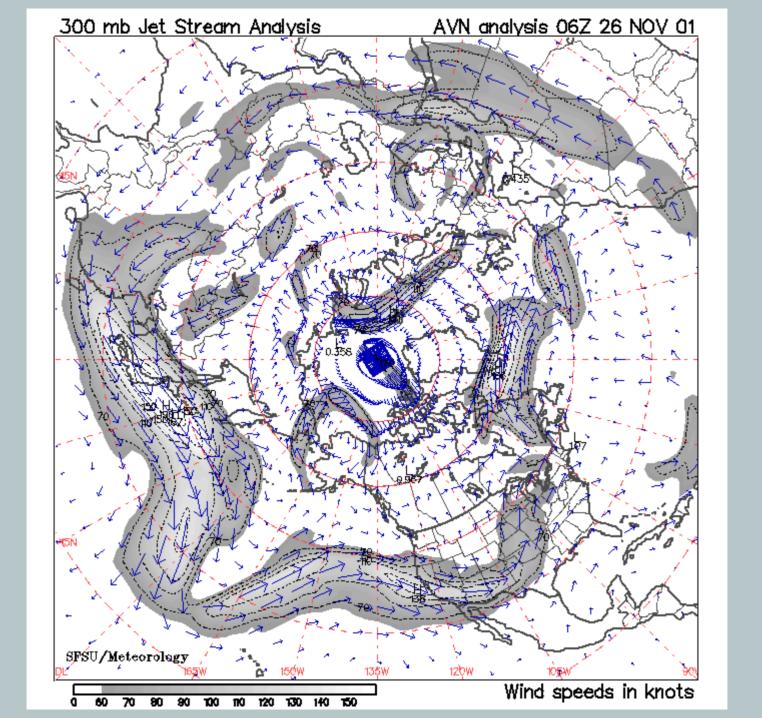


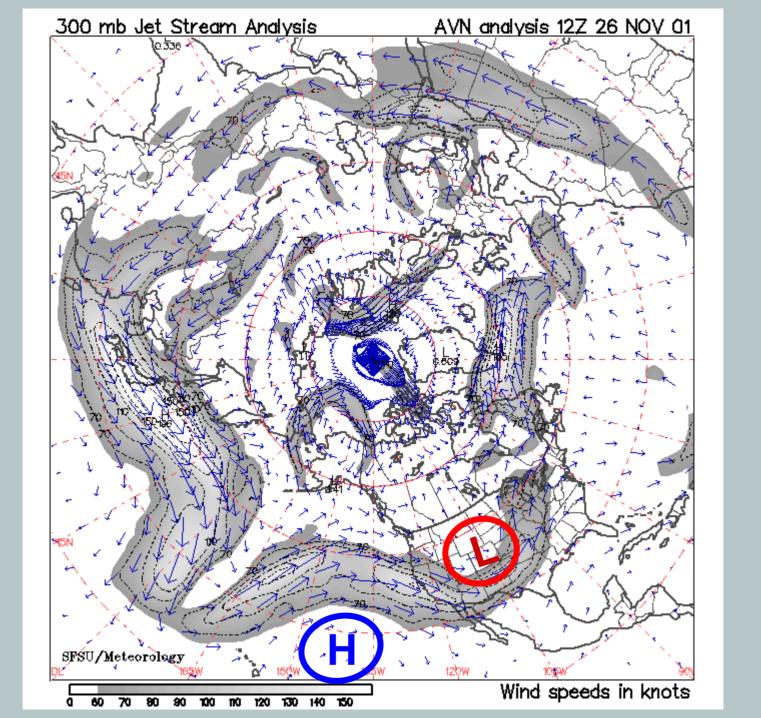




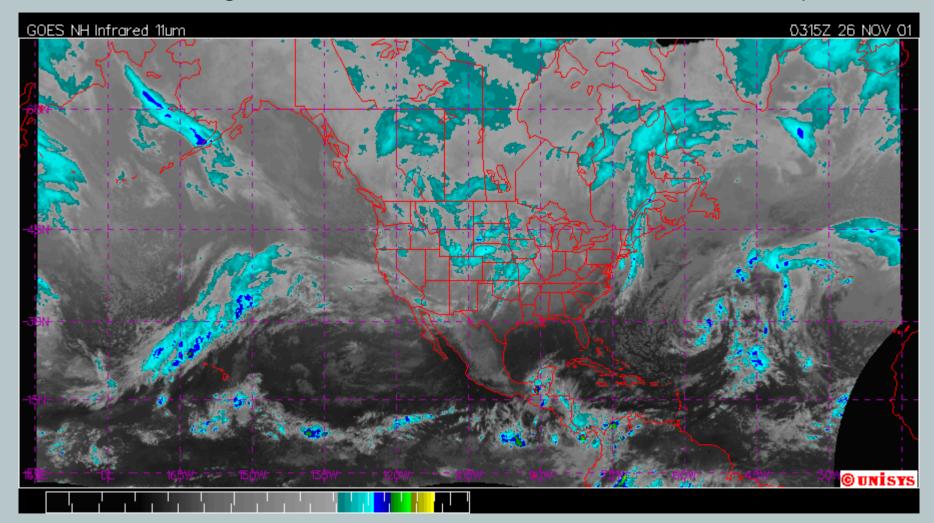




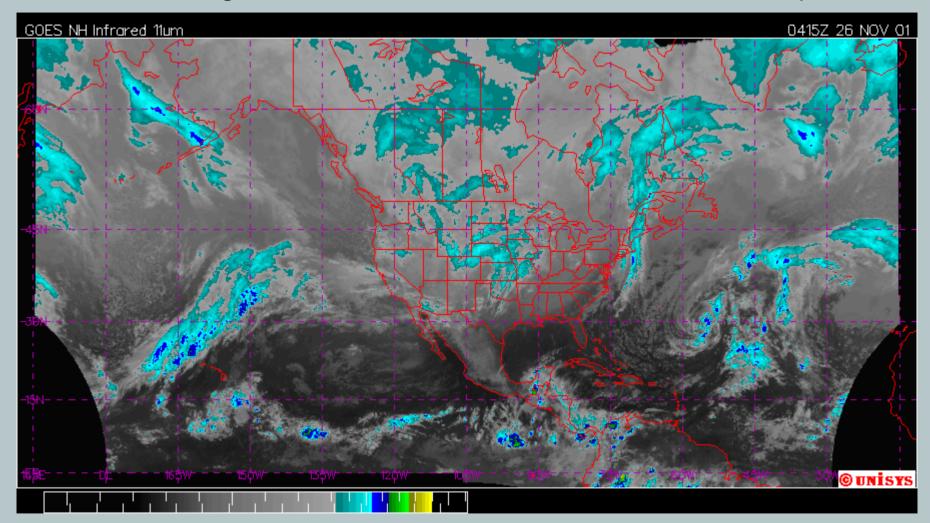




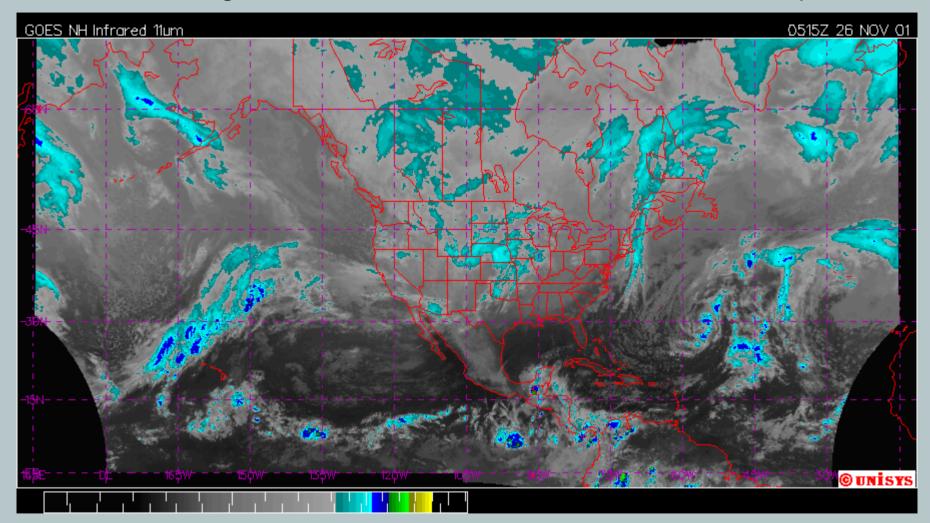
Two things to notice: source of moisture & source of spin

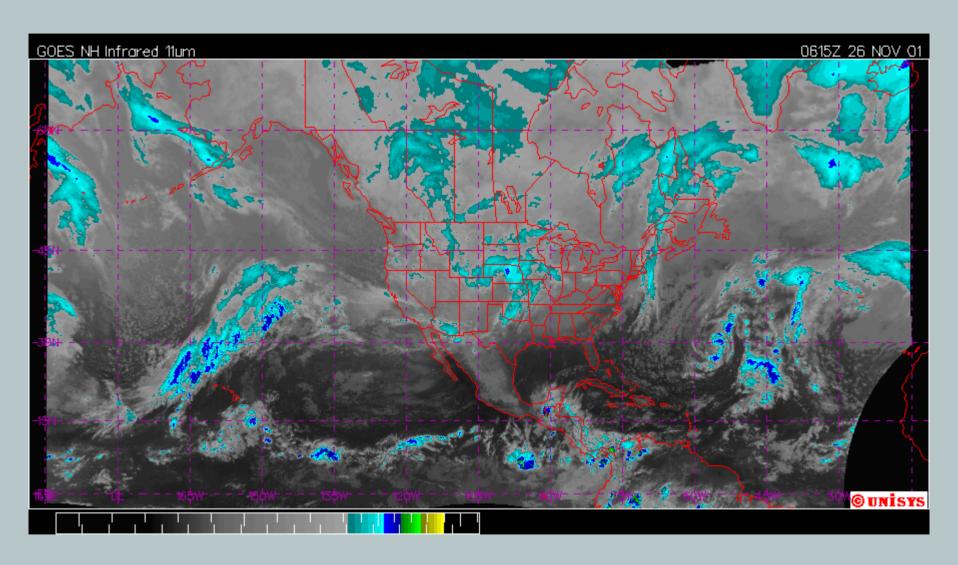


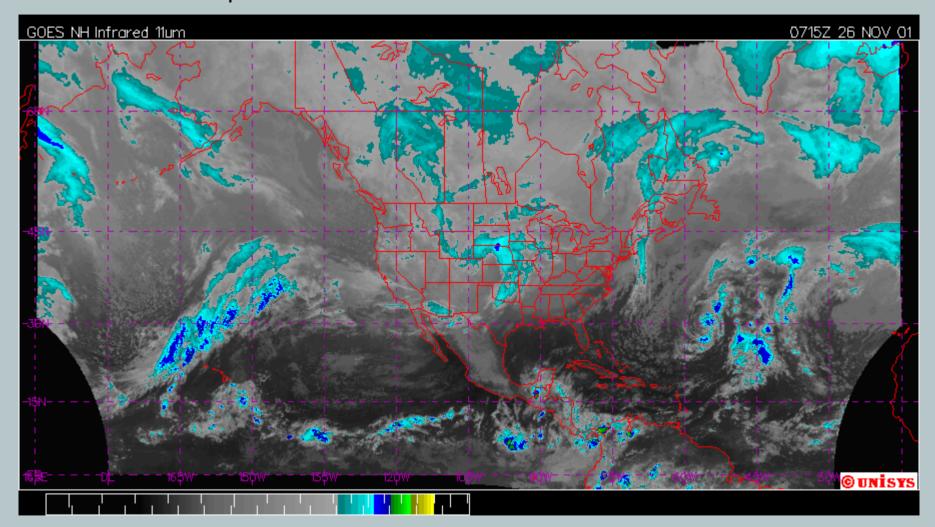
Two things to notice: source of moisture & source of spin

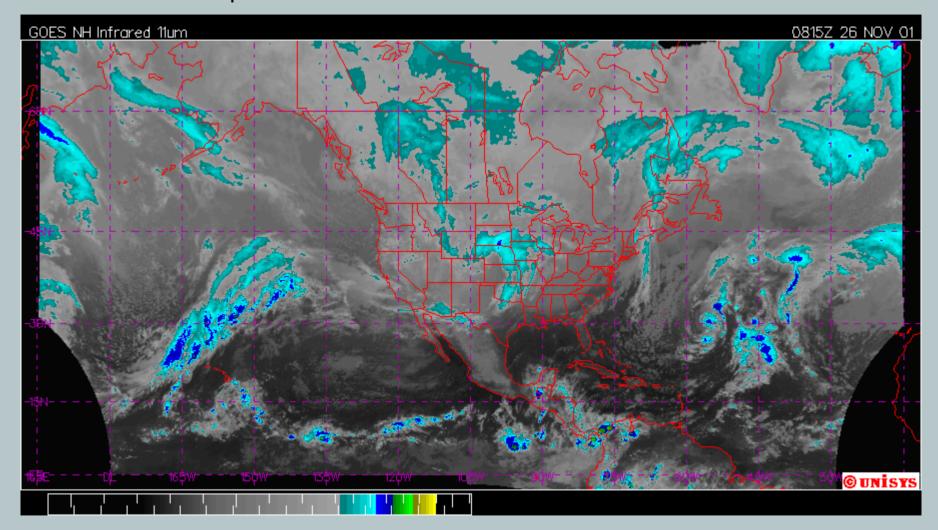


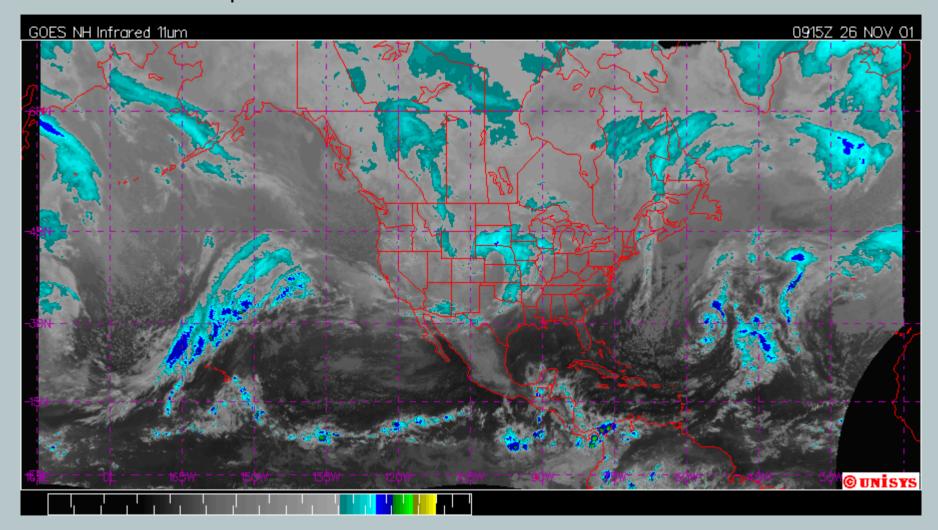
Two things to notice: source of moisture & source of spin

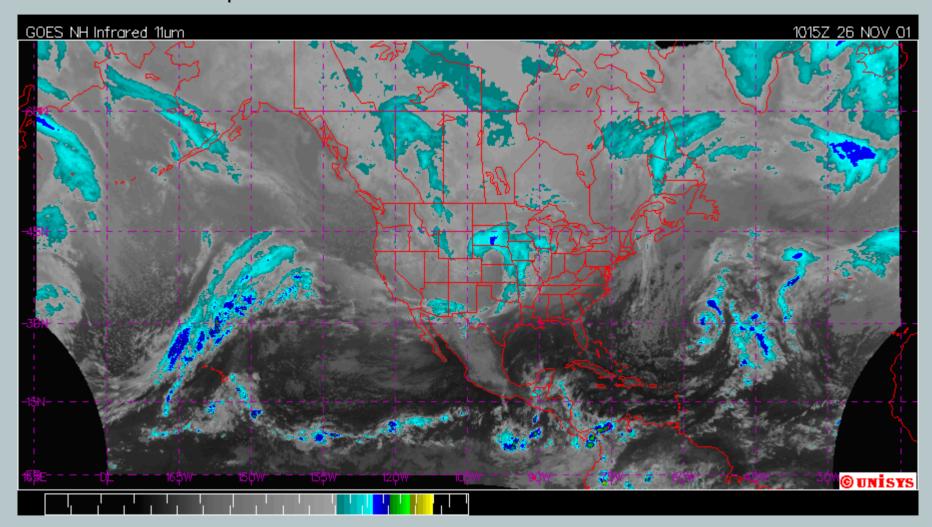


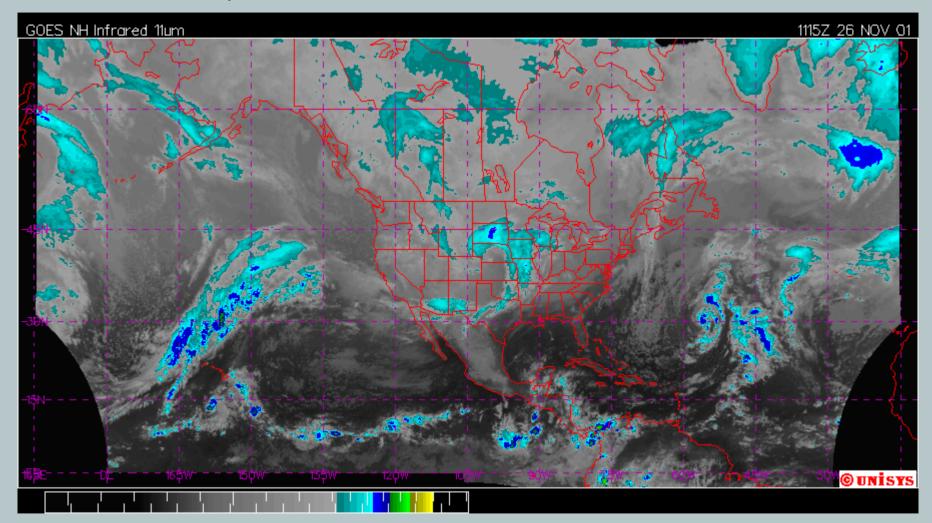


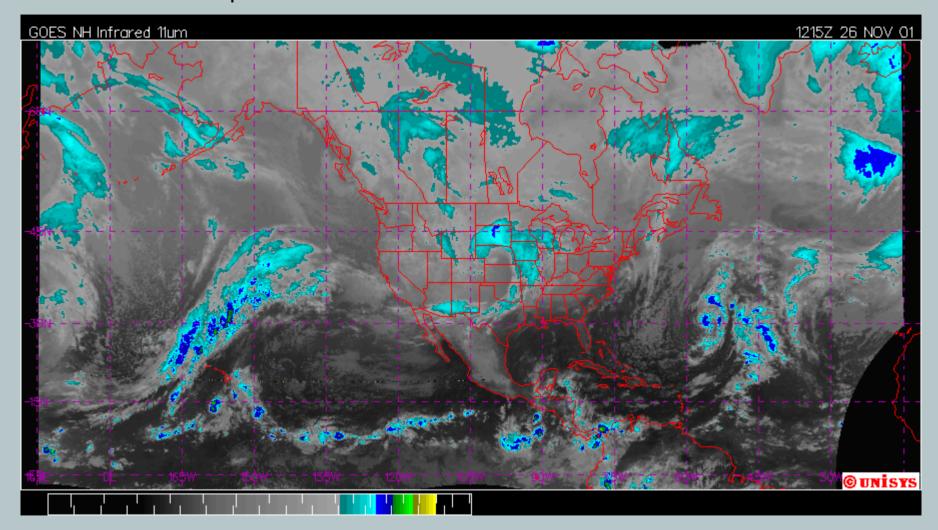


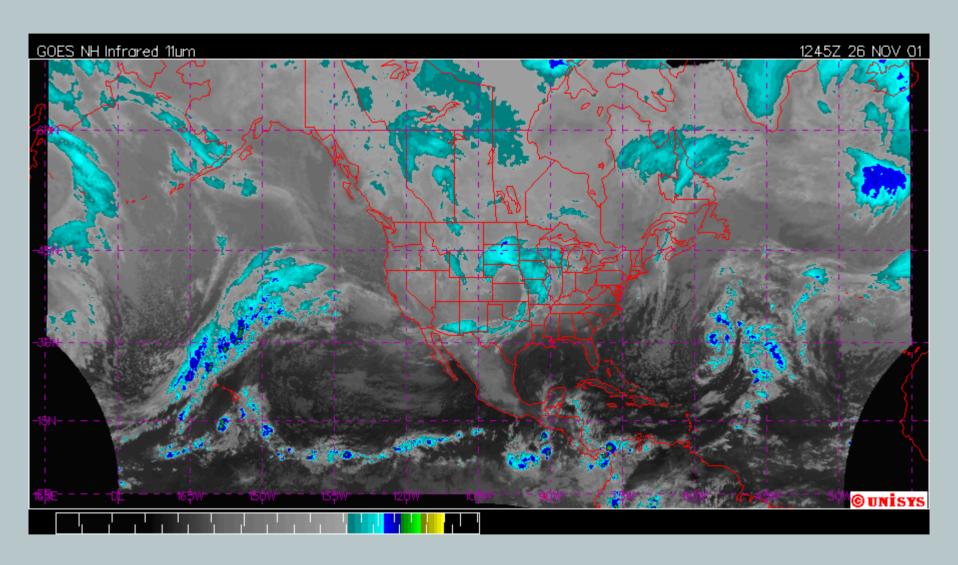


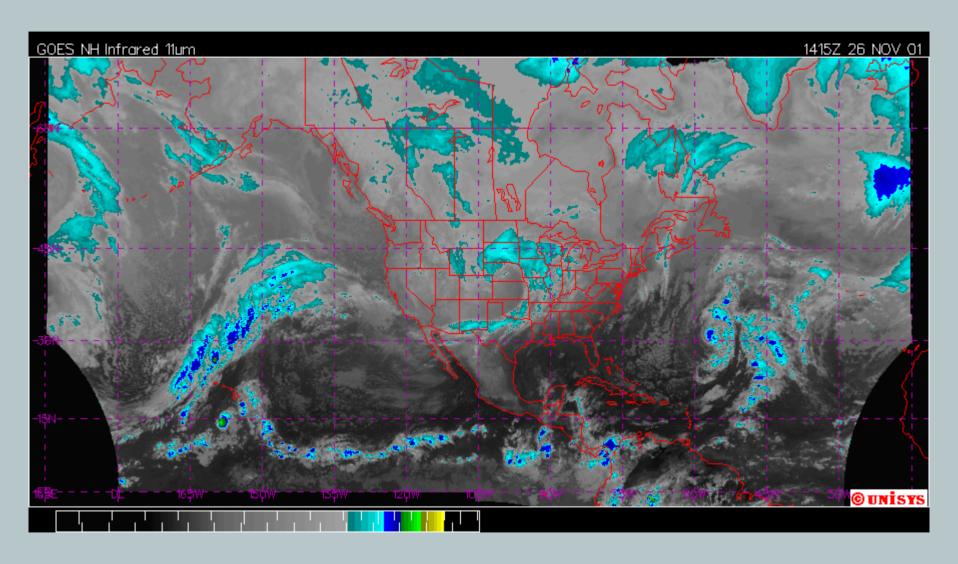


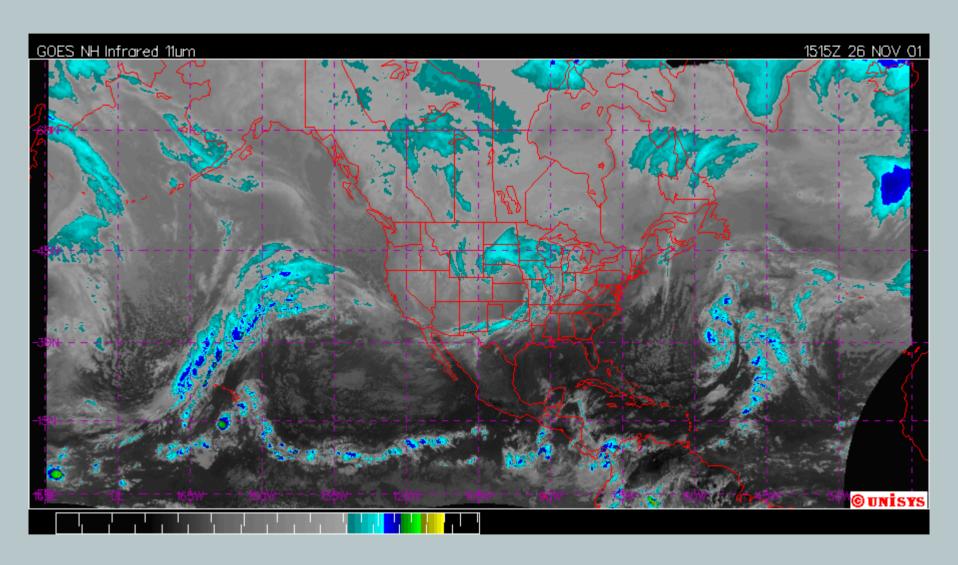


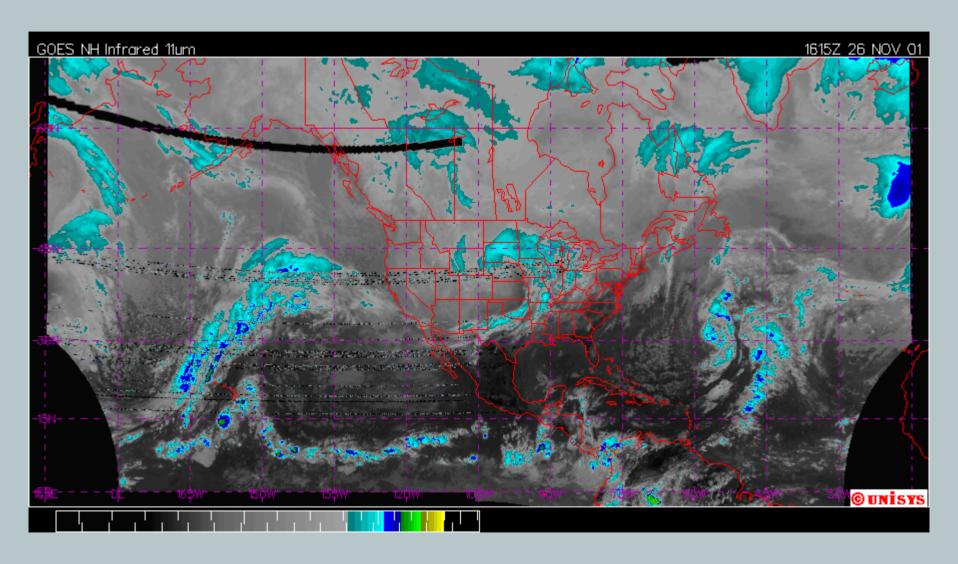


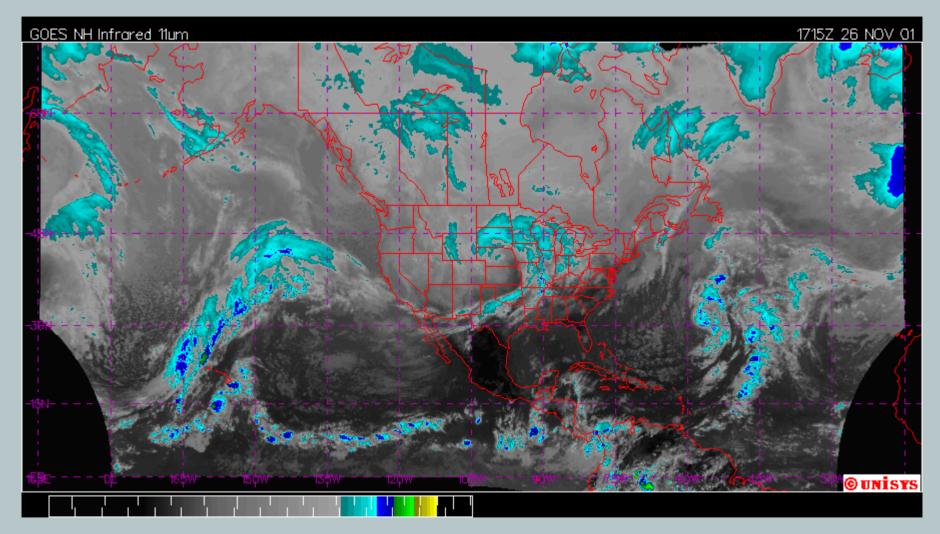


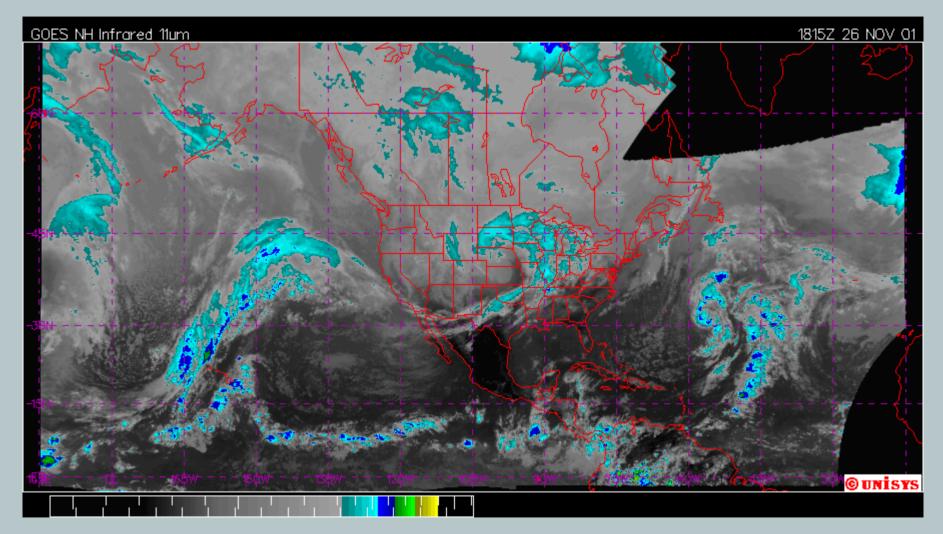


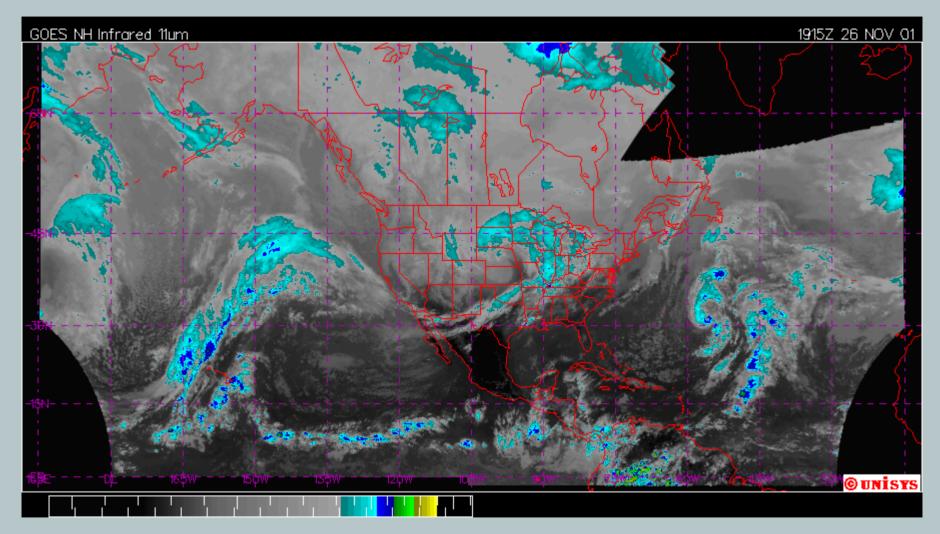


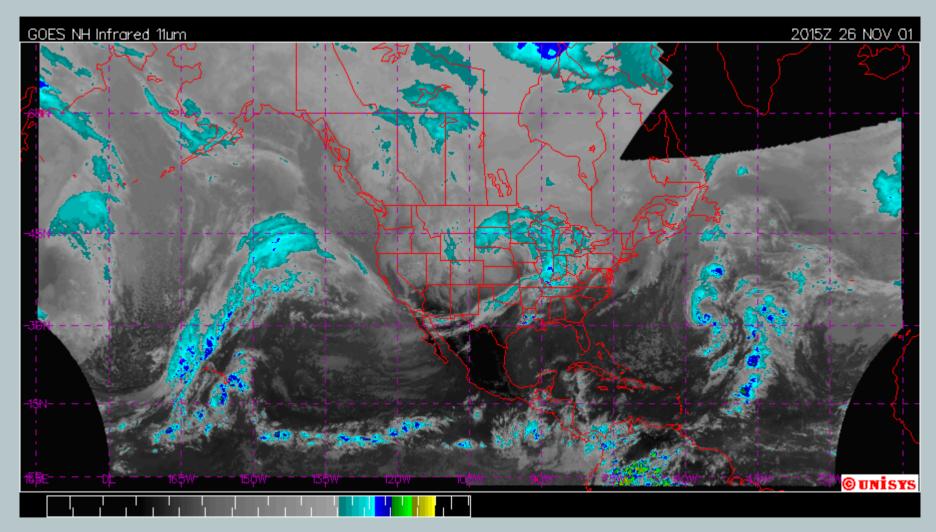


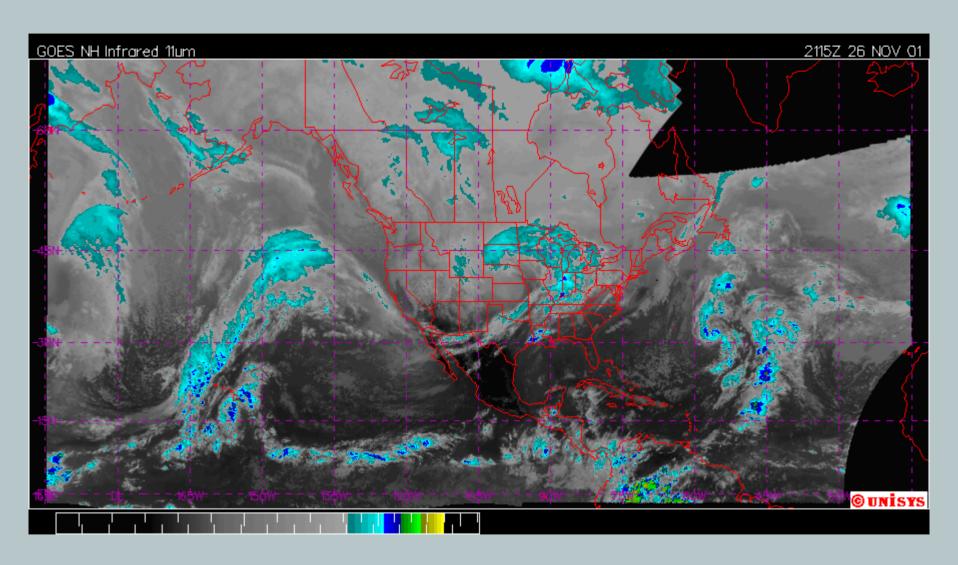




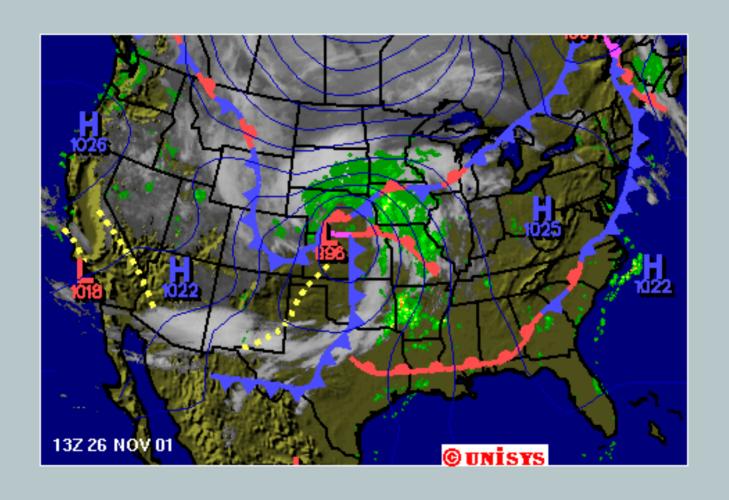








# Fully developed low-pressure system



# Mid-continent low-pressure system

#### **Important points**:

Our local weather is connected to and produced by interactions between:

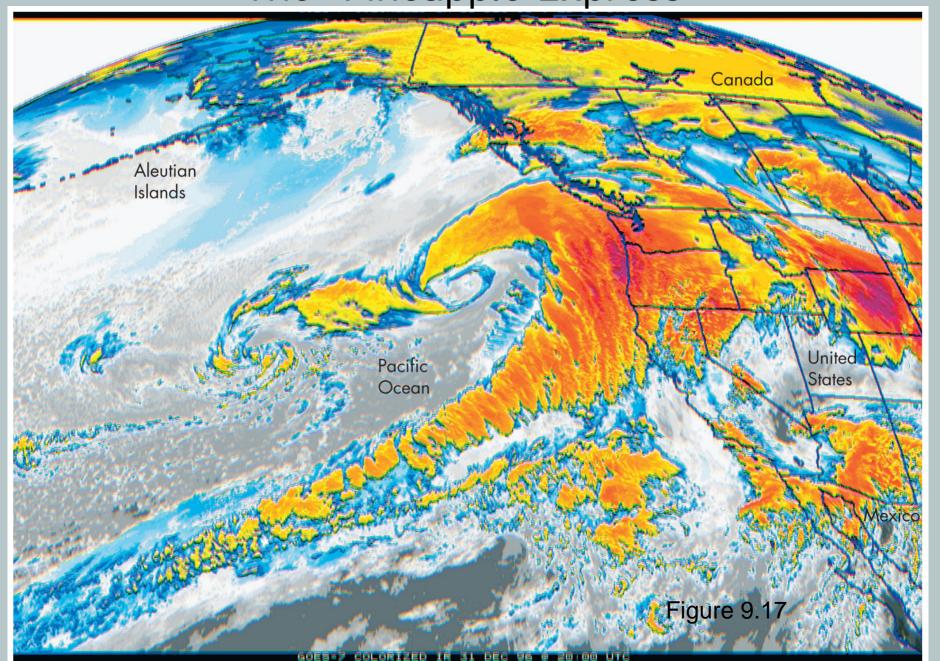
large high- and low-pressure systems different air masses the polar and subtropical jet streams

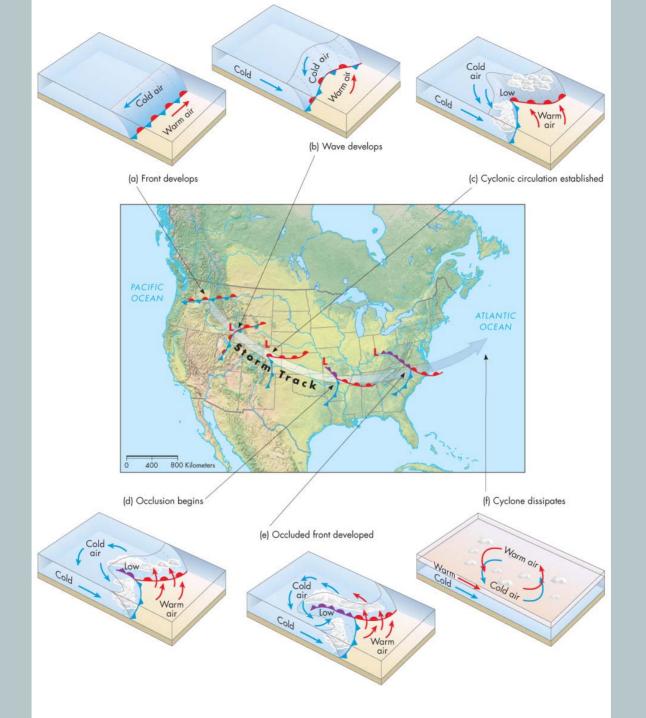
High pressure – clockwise spin

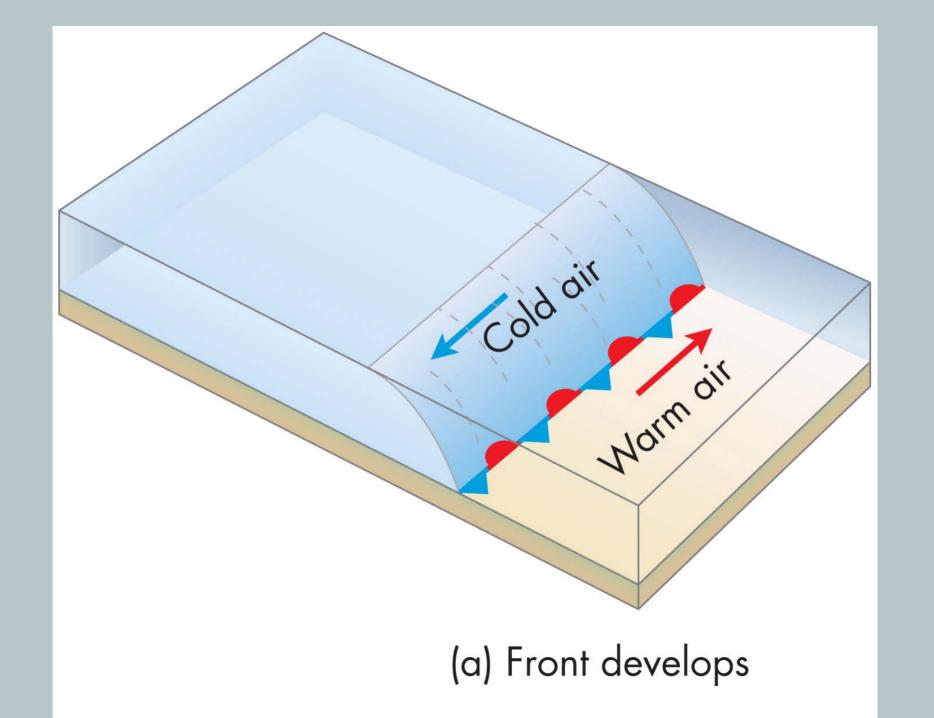
Low pressure – counter-clockwise spin

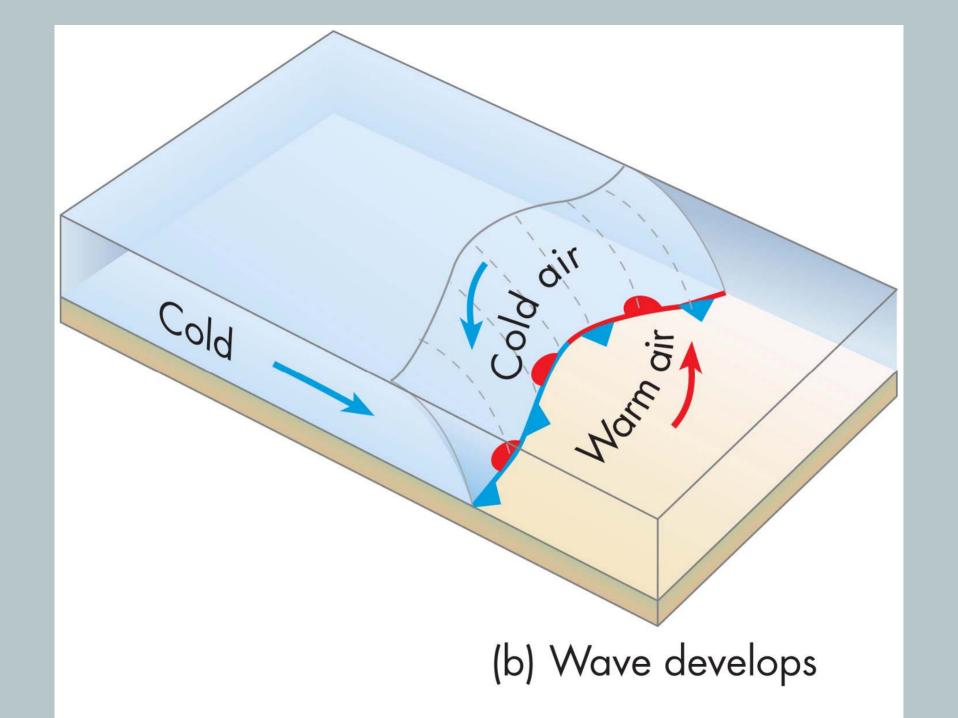
Warm and cold fronts produced by circulation around the high- and low-pressure cells

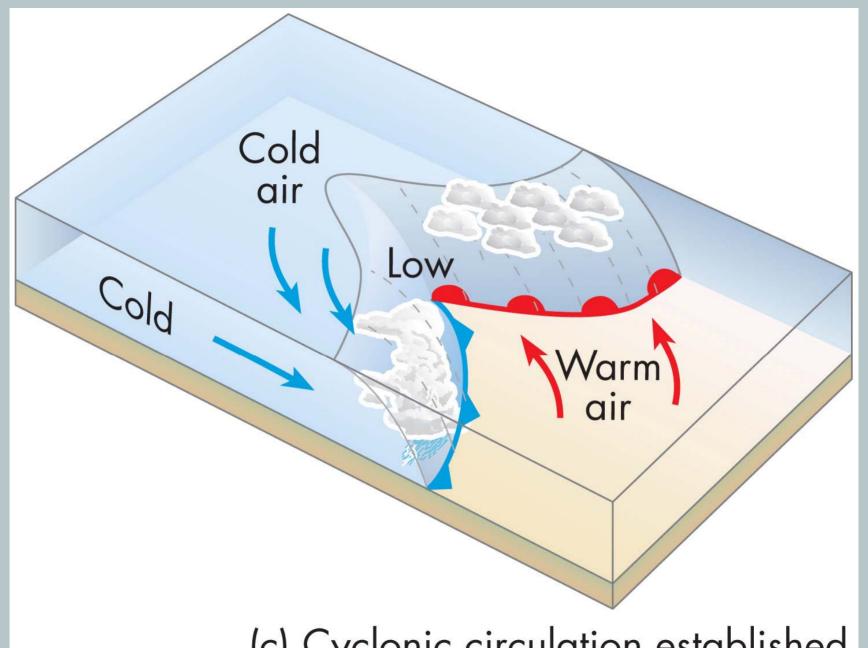
# The "Pineapple Express"





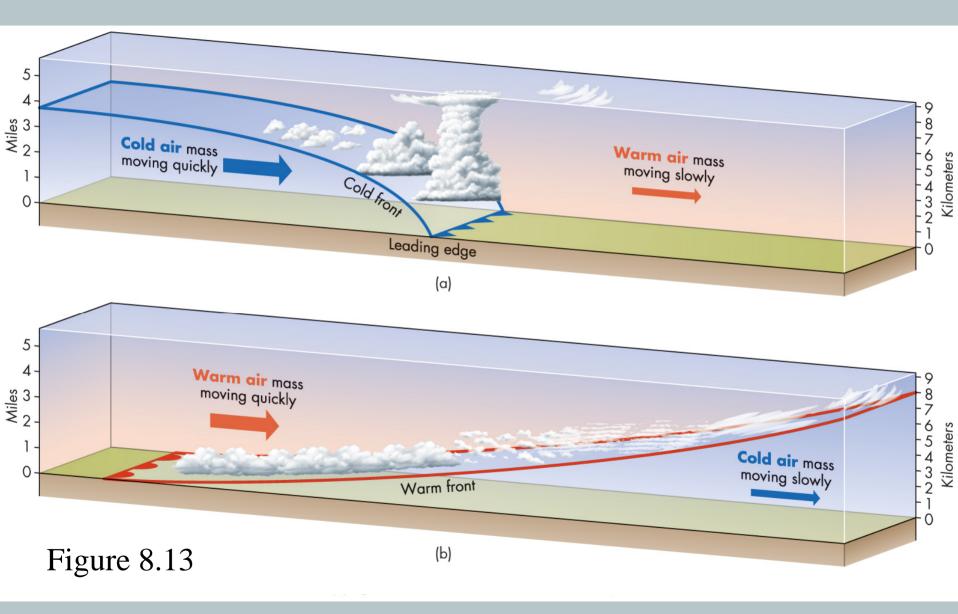






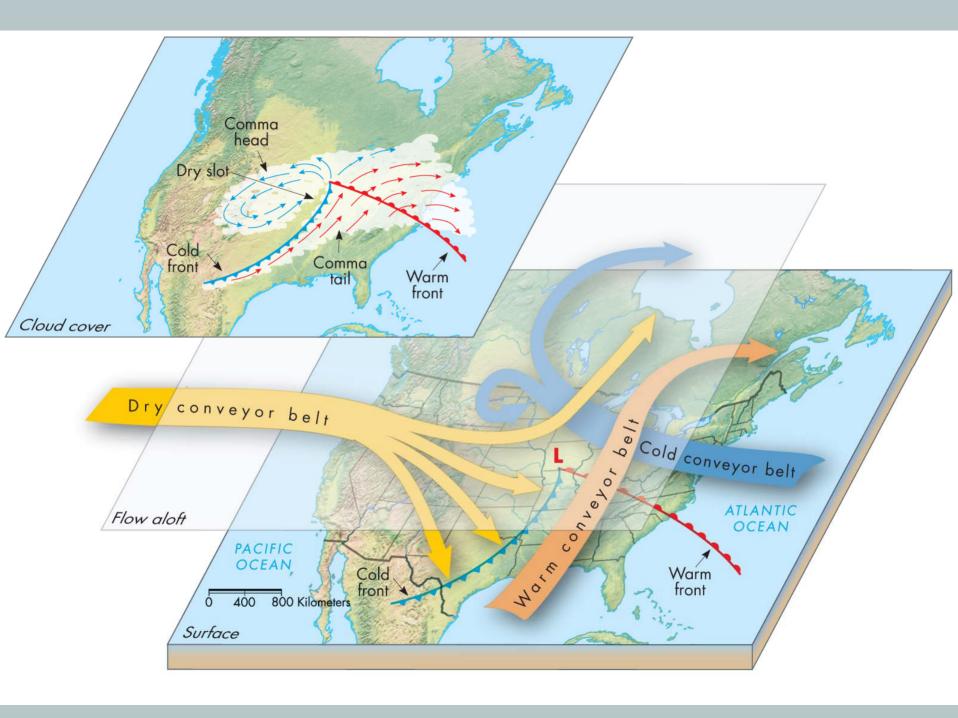
(c) Cyclonic circulation established

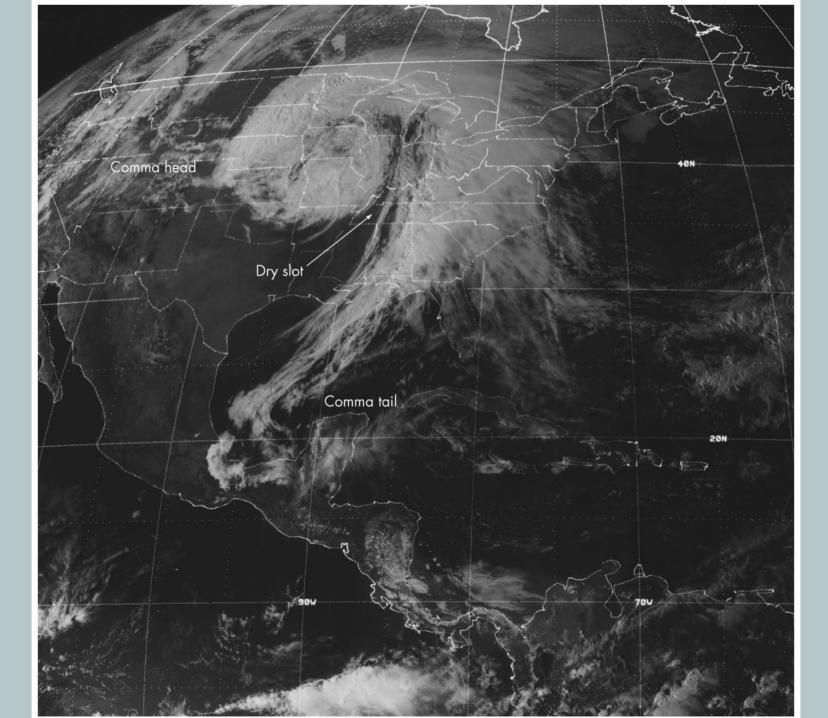
# Weather fronts



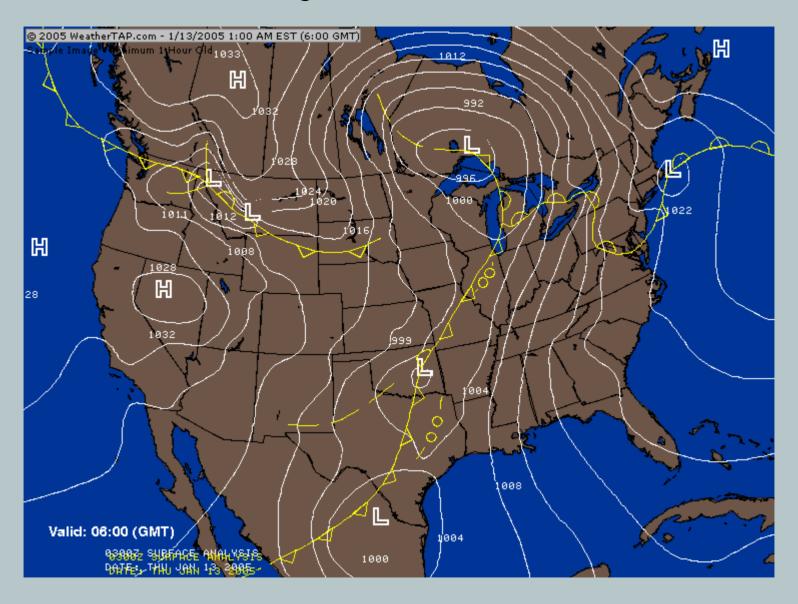
# (d) Occlusion begins Cold air Low Cold Warm air

# (e) Occluded front developed Cold air Cold Warm air

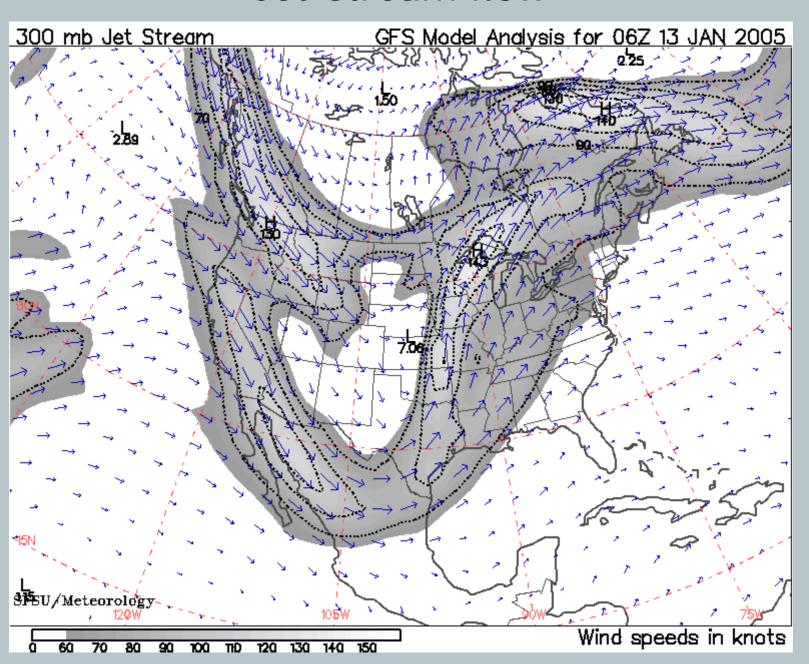




# Major cold front



## Jet-stream flow



## The cold front



# Locally in the upper Midwest

