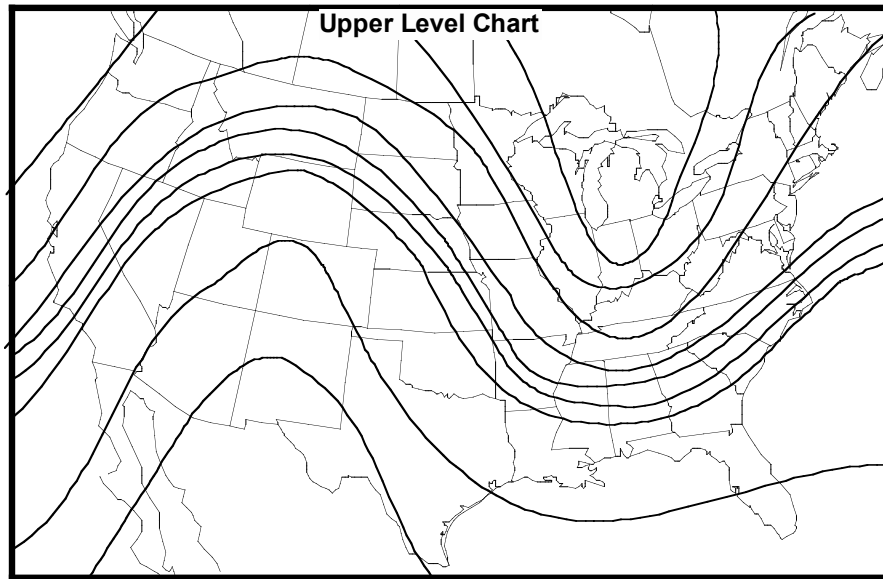


Jet Streams & Developing Cyclones

The chart below shows the isobars of the upper atmosphere, at an altitude approximately where commercial aircraft fly (300 mb; 36,000 ft). Answer the questions below using this chart.



1. Identify the location of the jet stream and lightly shade in this area.
2. Identify a trough. Draw a line to bisect the trough; label it “trough axis”.
3. Locate the upper level low. Place an “L_u” to designate its location.
4. Identify a ridge. Draw in a line to bisect the ridge; label it “ridge axis”.
5. Locate the upper level high. Place an “H_u” to designate its location.
6. Draw a circle around all areas of convergence.
7. Draw a square around all areas of divergence.
8. Identify the location where a surface low pressure center is likely to form.
Place an “L_{sfc}” at this location.
9. Identify the location where a surface high pressure center is likely to form.
Place an “H_{sfc}” at this location.