

500 mb Geopotential Height (m)  
500 mb Abs vorticity ( $1e-05$  m/s/m)

WXP analysis for 0000Z 10 SEP 08  
WXP analysis for 0000Z 10 SEP 08

00Z

<http://vortex.plymouth.edu/ua-u.html>

A peak in the cyclonic (positive) relative vorticity at the trough axis – due to “curvature” vorticity. PVA will occur downwind of this “vort max”

0 4.0 8.0 12 16 20

06Z

2.7a

# Plymouth State Weather Center

500 mb Vorticity Advection/Analysis for 00Z 10 SEP 08

500 mb Geopotential height/Analysis for 00Z 10 SEP 08

00Z

<http://vortex.plymouth.edu/reanal-u.html>

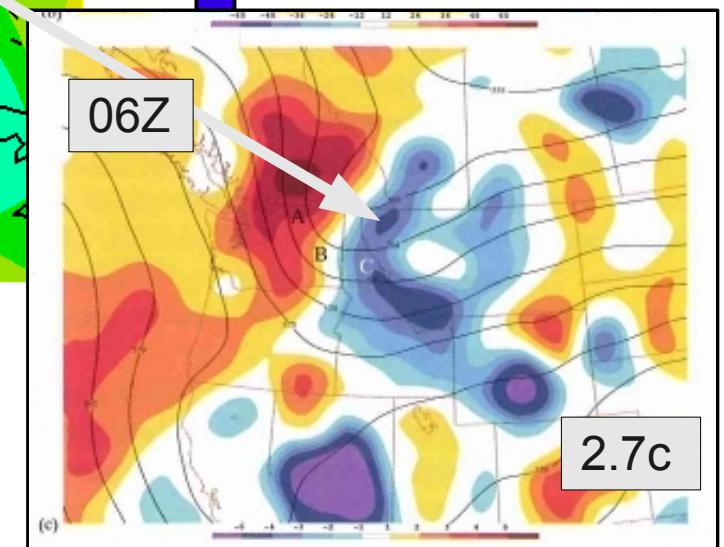
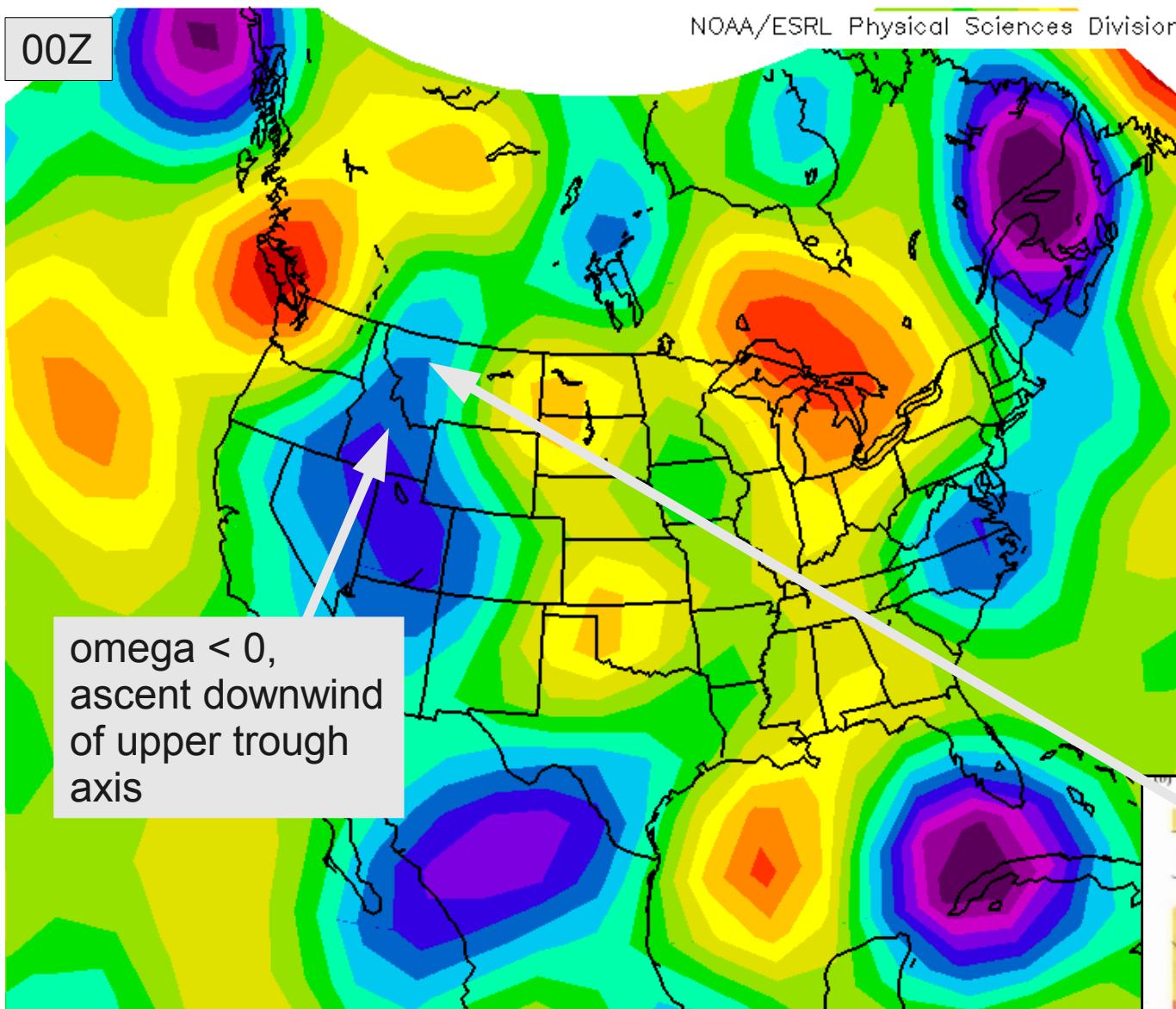
trough axis

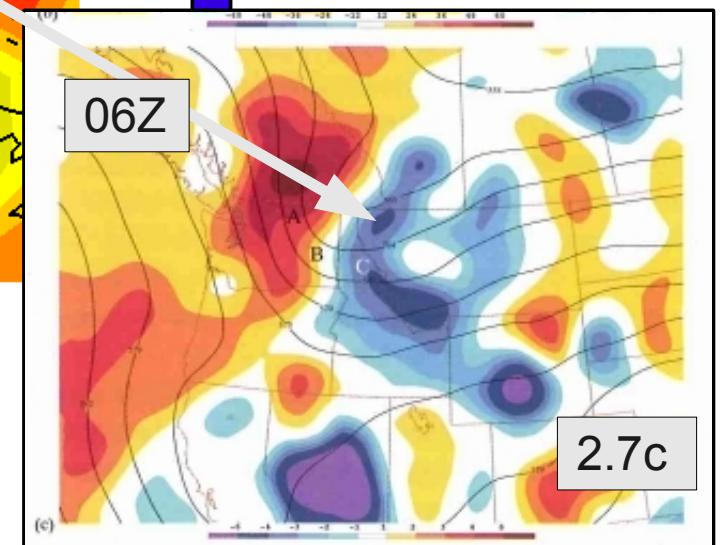
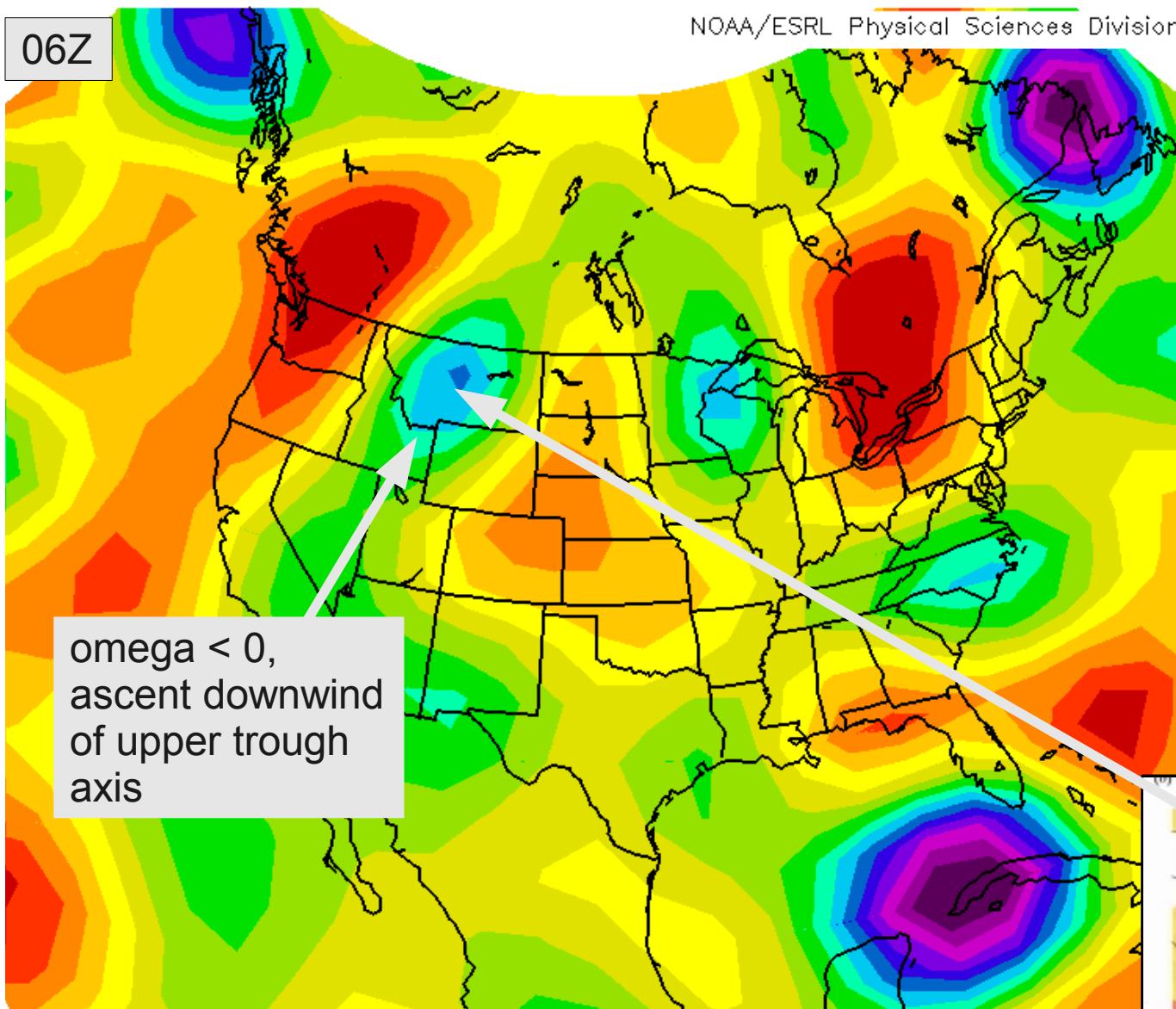
PVA



06Z

2.7b





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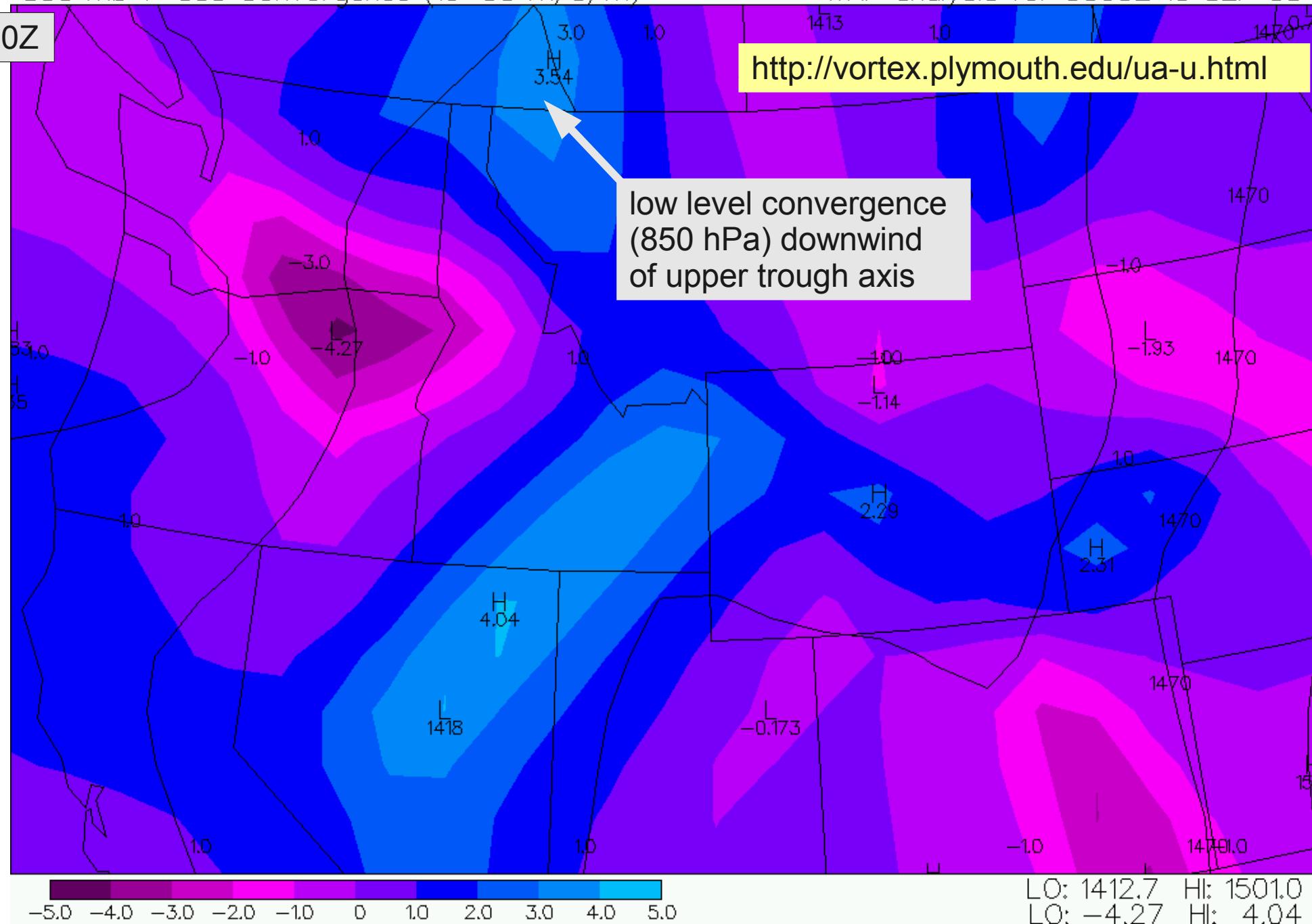
850 mb Geopotential Height (m)  
850 mb v-999 Convergence ( $1e-05$  m/s/m)

WXP analysis for 0000Z 10 SEP 08  
WXP analysis for 0000Z 10 SEP 08

00Z

<http://vortex.plymouth.edu/ua-u.html>

low level convergence  
(850 hPa) downwind  
of upper trough axis



# Plymouth State Weather Center

850 mb Convergence/Analysis for 00Z 10 SEP 08

850 mb Geopotential height/Analysis for 00Z 10 SEP 08

00Z

<http://vortex.plymouth.edu/reanal-u.html>

H

low level convergence  
(850 hPa) downwind  
of upper trough axis

(NCEP reanalysis is rather different)

