

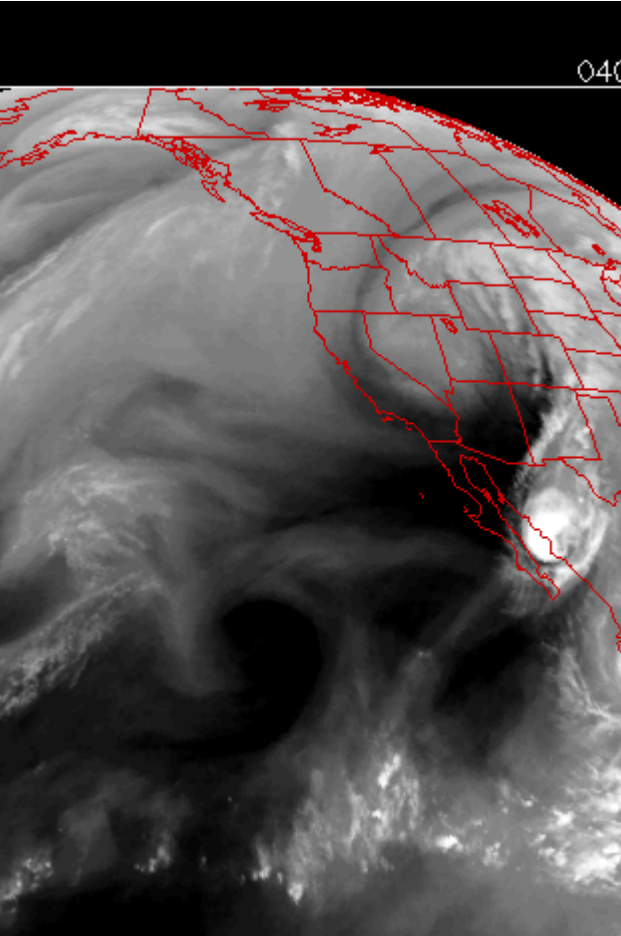
MOD HI TURB Central CA

Noel Keene ZOA CWSU

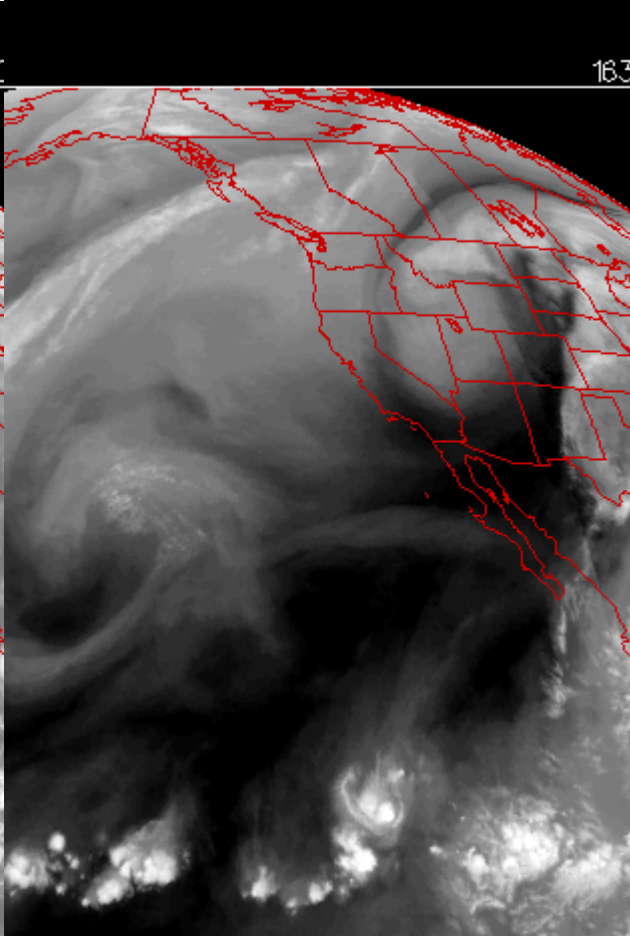
12 Oct 2008

Water Vapor Imagery

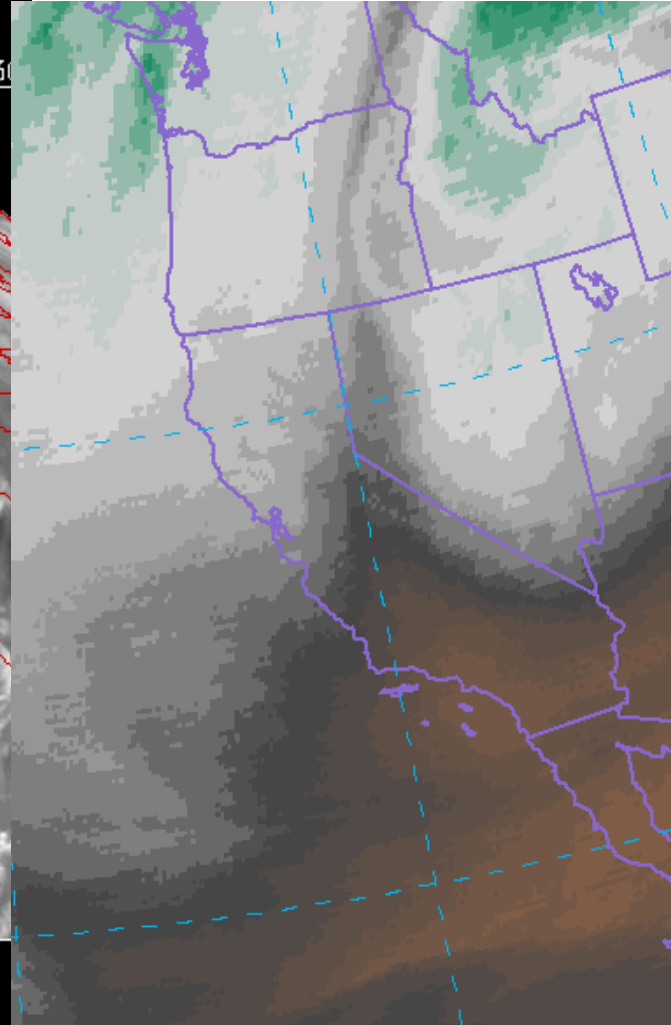
04Z 12 Oct



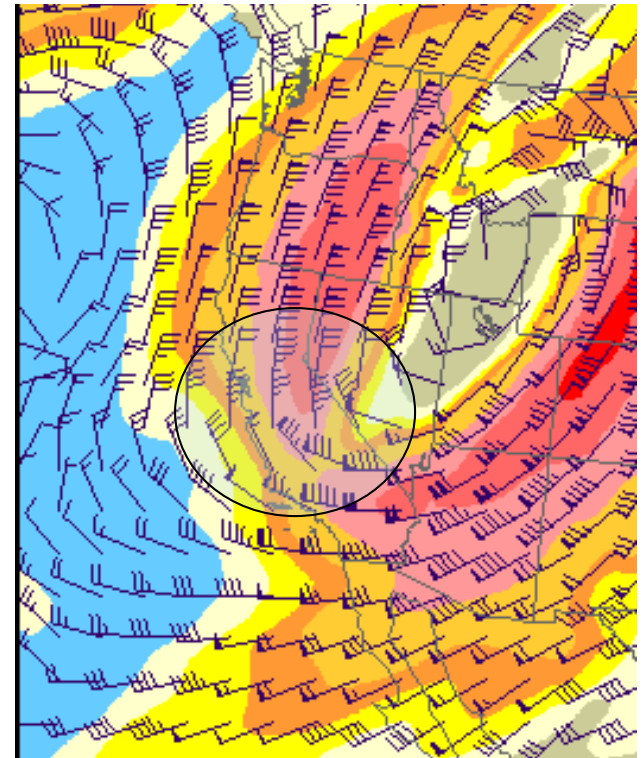
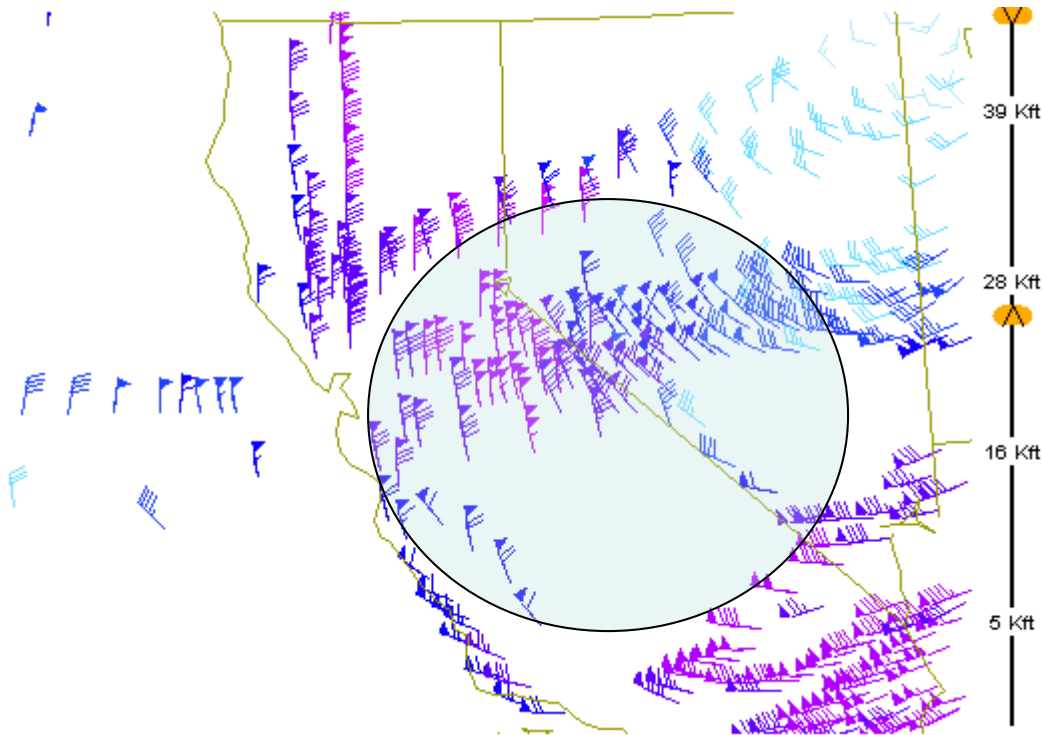
1630Z 12 Oct



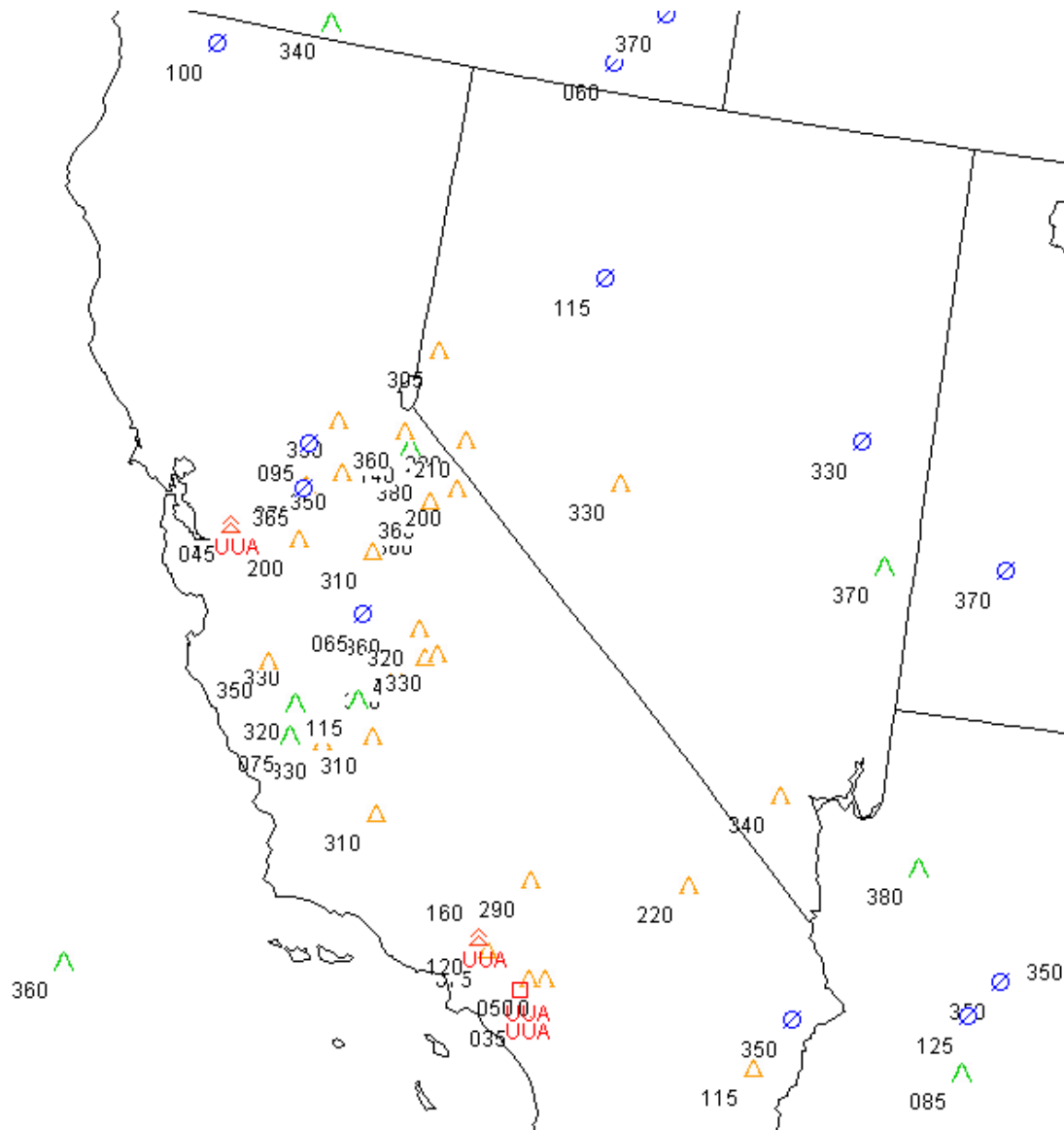
1630Z 12 Oct



Some Speed Confluence and Dir Difffluence near FL300

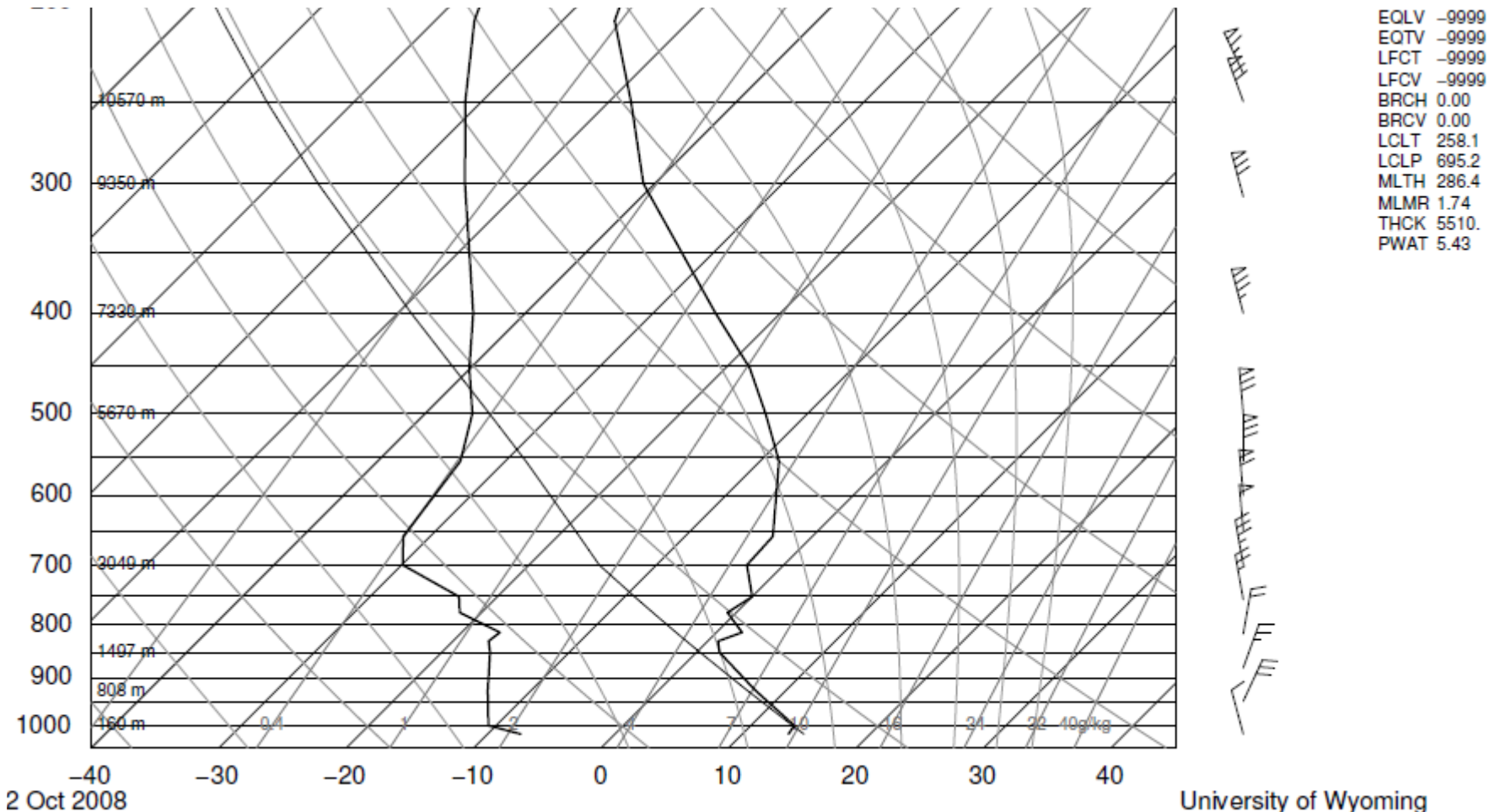


PIREPS 15Z-18Z 12 Oct



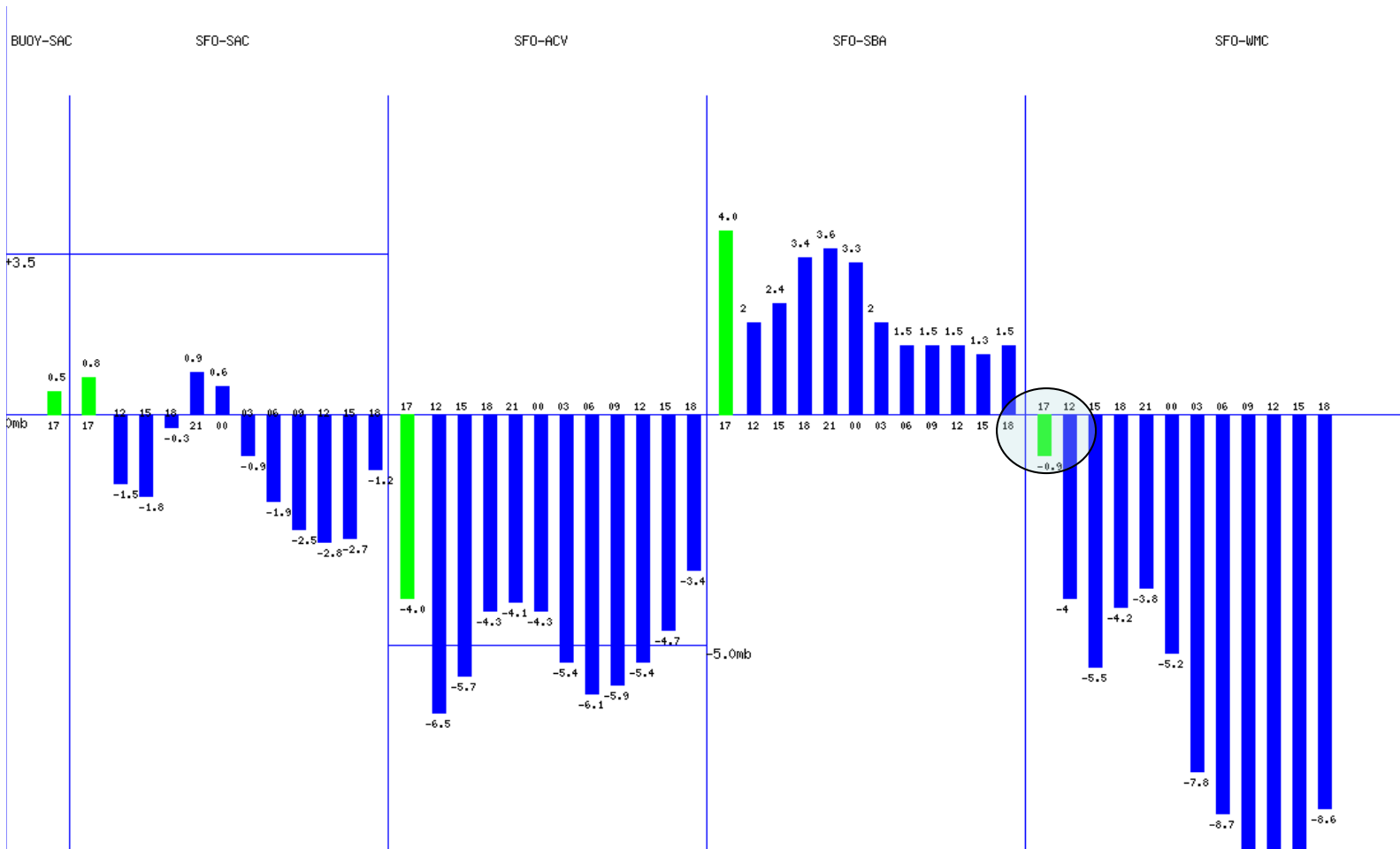
12Z Sounding 12 Oct 08

L/L flow not strong enough or ELY enough to cause WDSR SEV Lo
Turb over Bay Area hills



Gradients 17Z 12 Oct

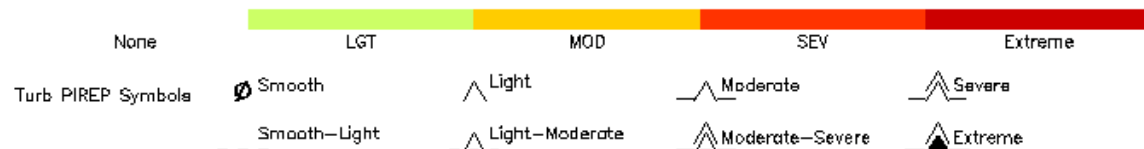
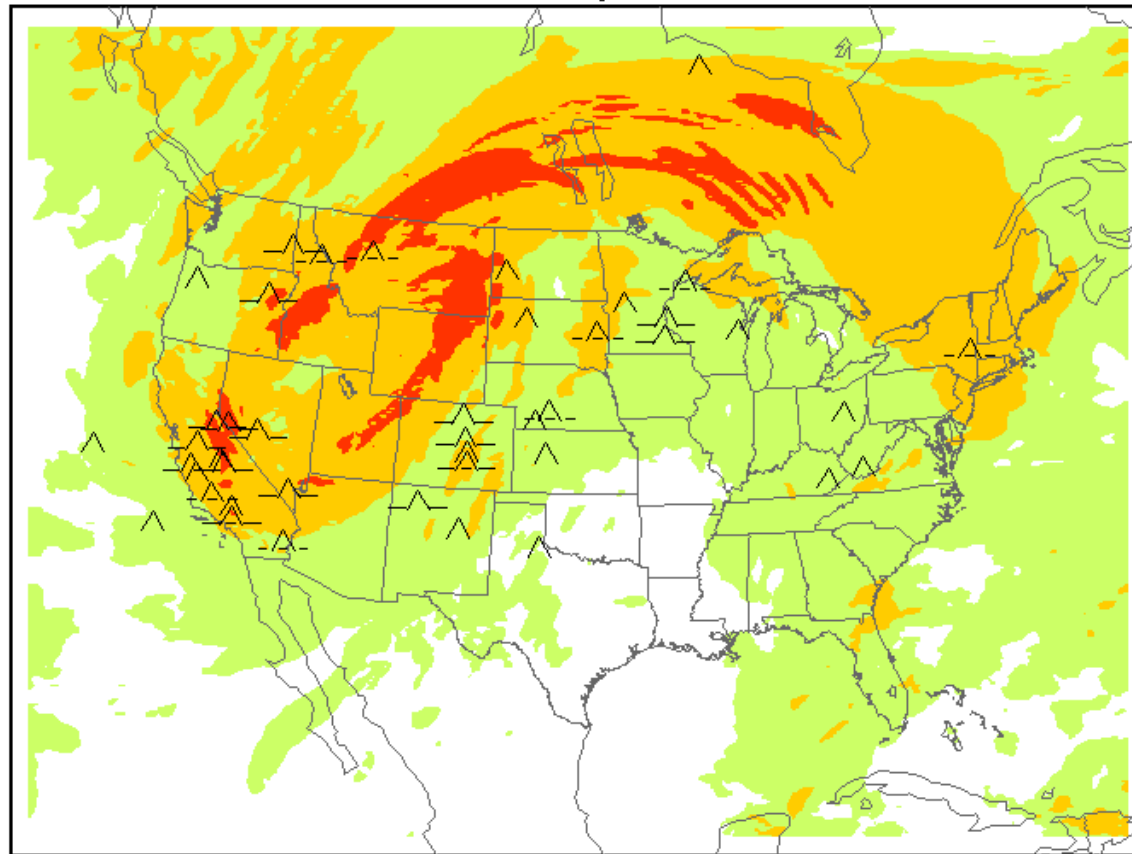
Current ELY SFO-WMC gradient(green -0.9) not strong enough for SEV TURB(usually is -10+) and model(blue) overestimating offshore flow



GTG Model Generally Correct But Overdone

Maximum turbulence potential (FL200-FL450)

Analysis valid 1700 UTC Sun 12 Oct 2008



Lessons Learned/Notes

- WDSPR Mod Hi Turb Event Several Days After Anomalously Strong Trof Passage
 - Valley Highs Dropped 10F after Trof Psg
 - 24hr H5 Hgt Change 180M 12Z 10/9-10/10
 - 48hr H5 Hgt Change 330M 12Z 10/9-10/11
- No WDSPR Mod-Sev Lo Turb Event
 - SFC Pressure Gradients/Low-Level Flow Not Sufficient Dir(too much parallel to hills) or Speed to Cause Multiple Sev Lo Turb Rprts(1 Sev Lo Turb LVK)