rev=48&order=size http://proj.badc.rl.ac.uk/pimms/browser/CASCADE/ControlledVocabs/trunk/Software? Mind maps of climate models and their components

(Must have Flash player installed)

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(4)+W' & Smoothed + allies \ Spatial scale separation Secondary How: I strategic tool, Examples, Contains most KE + " nextig" 1 (2) -> Flywheel plus engine a geostrophic flow

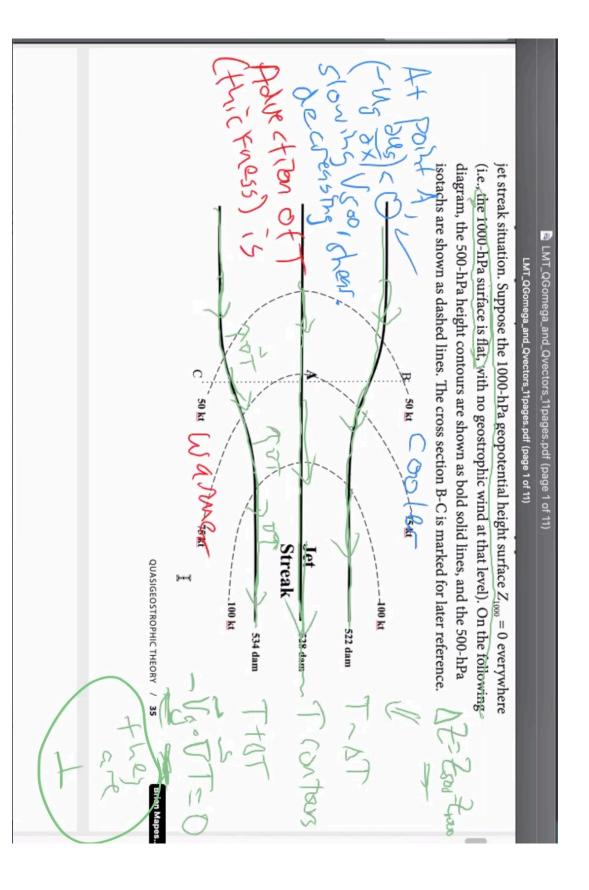
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agrostaghic winds doing them job to mainten. Two in a geostrophic flow pathen. o Two tous sto do the is via #1 WSp T(Vaxe) ~ dt agesstaghic wind's divergent par 1 - (To V) 1 - (To Va) adjust (Vg) salust



LMT_QGomega_and_Qvectors_11pages.pdf (page 2 of 11)

and b) act together? Why or why not? balance be sustained in locations such as point A as the advective tendencies from a) "lower" levels, and "C" is a constant for a given pressure layer. Would thermal wind This is Eq. (1.44) in MSM. Here, the subscripts "U" and "L" correspond to "upper" and

- d) If the answer to c) is "no," explain the sense of the imbalance that would develop at point A. In other words, would the vertical shear of the westerly flow become too weak for the north-south temperature gradient, or vice versa?
- Based on your answer to d), what would need to happen in order to bring the atmo-The magnitude of the temperature gradient would need to sphere back toward thermal wind balance in the vicinity of point A?

AND/OR

The magnitude of vertical wind shear would need to