

**METR 2413 - Homework 9**

Name: \_\_\_\_\_

**Date assigned: 31 March, 2004****Date due: Monday, 5 April, 2004 (Note: this date is not an error!)**

1. Given the data below, compare the 1000 mb to 500 mb thicknesses at 30° latitude and 60° latitude in January.
  
  
  
  
  
  
  
  
  
  
2. Given the data below, compare the 1000 mb to 500 mb thicknesses at 30° latitude and 60° latitude in July.

	<b>30°N</b>		<b>60°N</b>	
<b>Pressure level</b>	<b>January</b>	<b>July</b>	<b>January</b>	<b>July</b>
1000 hPa	288 K	304 K	257 K	288 K
500 hPa	257 K	267 K	240 K	256 K

3. Based on your results from above, discuss the likely change in geostrophic wind from winter to summer. Give a brief explanation (justification) of your answer.

