

12.818: INTRODUCTION TO ATMOSPHERIC DATA AND LARGE-SCALE DYNAMICS  
PROJECT SIX: ATMOSPHERIC FRONTS AND THERMAL WIND

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In this project we will investigate the structure of atmospheric fronts and the relationship between the large-scale temperature and wind fields as described by the *thermal wind*. Note that the thermal wind is not actually a wind, but rather a vertically varying *wind shear* that arises due to a balance between the Coriolis and pressure-gradient forces, and so it describes changes in wind with height, rather than the wind itself.