ADVANCED SYNOPTIC METEOROLOGY

METR 5413

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Problem Set #1

Handed out: Tues, 28 Jan. 2020

Due: Tues., 4 Feb. 2020

In Vol. I: Problems 5.14, 5.15, and the following:

Consider the distribution of vertical motion () below at a location at 350 N. Using quasigeostrophic theory, estimate the rate of production of geostrophic vorticity following geostrophic motion at 850 hPa.

METR5413pset1fig1.ai