Anelastic notes plan

To do before anything else:

1. Resolve what happens in Boussinesq limit
2. Figure out Keith’s point about “u dot grad Sbar” term that shouldn’t be there.
3. Finish up physics about overshoot remaining small-thermal-perturbations.
4. See if asymptotics of pseudo-incompressible equations suffer from any of the same breakdown of scaling analysis and/or energy conservation.

Three papers:

1. Gough’s equations conserve energy in all cases.
2. Difference between reference state and time-evolving mean state is actually significant and potentially addressable in an anelastic/Boussinesq framework.
3. There are circumstances when overshoot and restratification of stable layers is also addressable in anelastic/Boussinesq framework with corrected equtions and certain assumptions.