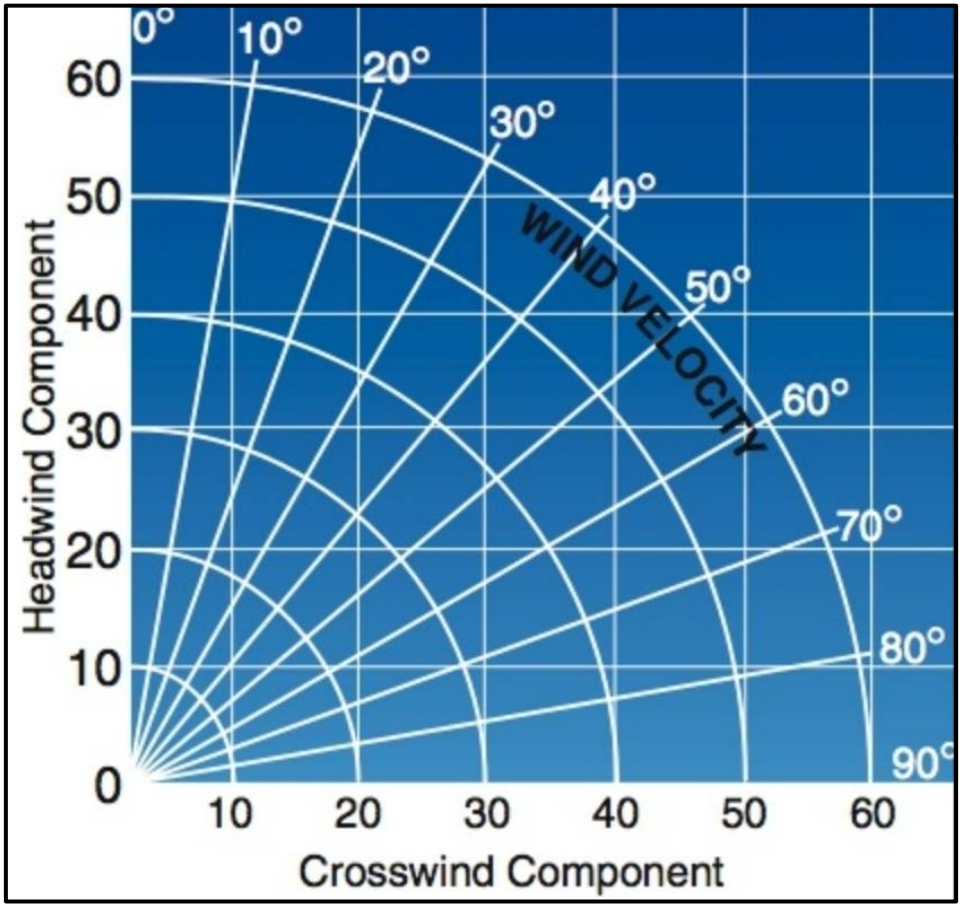
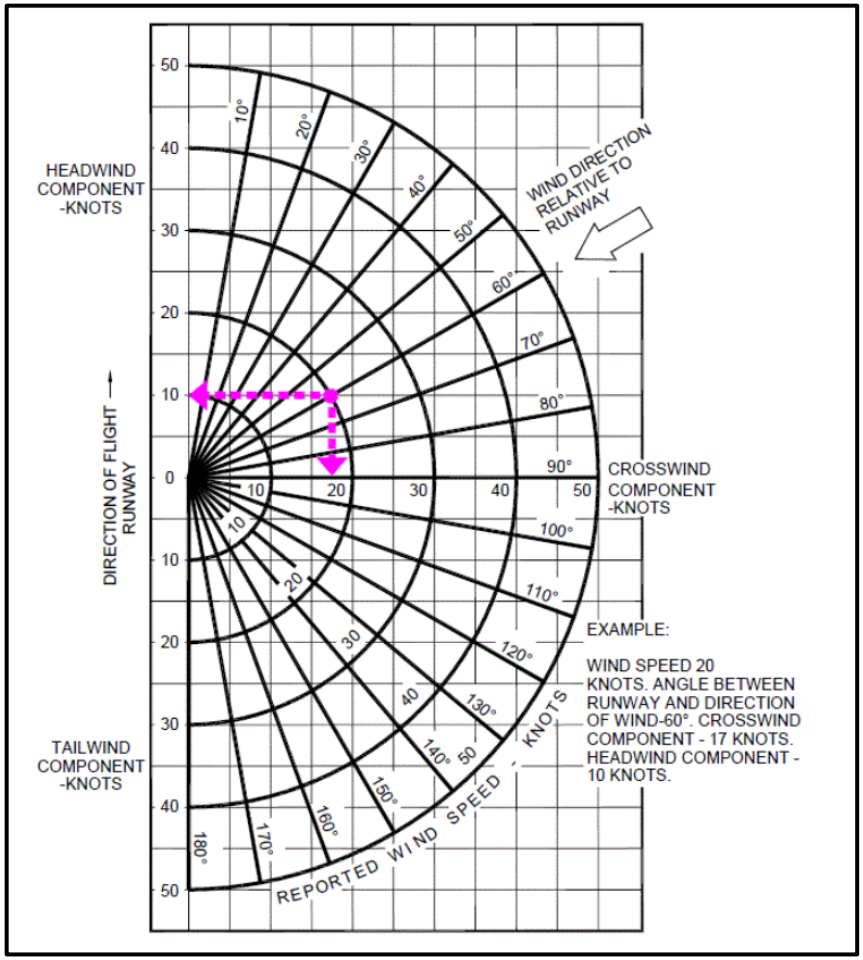
ATSC 113 – Final Exam

Tools Section

Headwind/Tailwind/Crosswind Component Calculator



Headwind/Tailwind/Crosswind Component Calculator



Density Altitude Calculator

Aviation Weather Services, Advisory Circular 00-45G, Change 1 (July 2010)

13 APPENDIX D: DENSITY ALTITUDE CALCULATION

To determine density altitude:

1. Set the aircraft's altimeter to 29.92 inches of Mercury. The altimeter will indicate pressure altitude.
2. Read the outside air temperature.
3. Mark the intersection of pressure altitude (horizontal) and temperature (vertical) lines on the chart.
4. Read the density altitude from the diagonal lines.

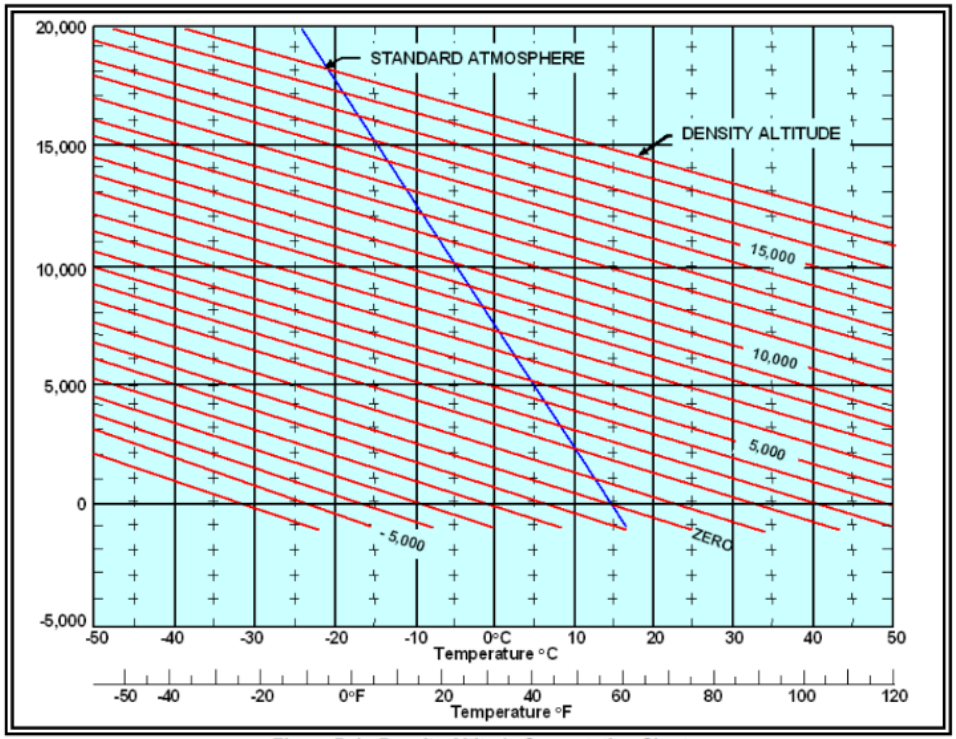
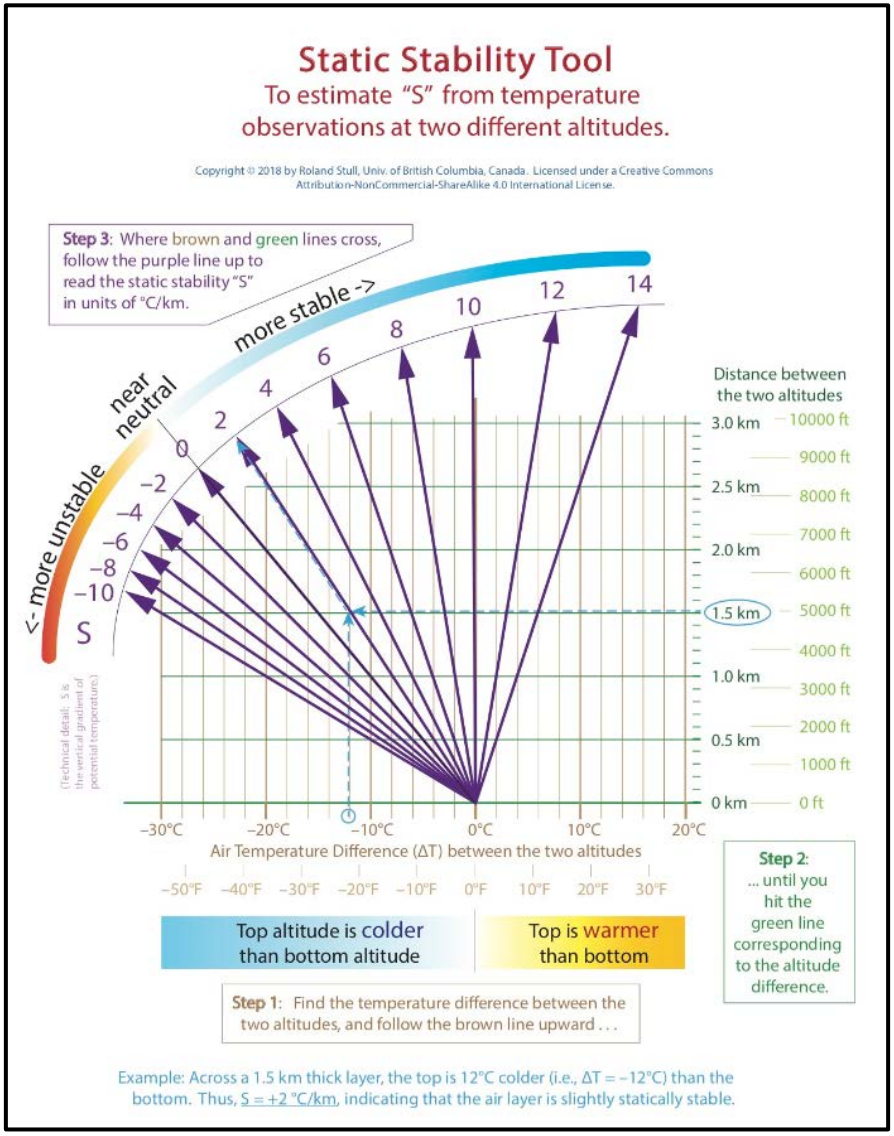
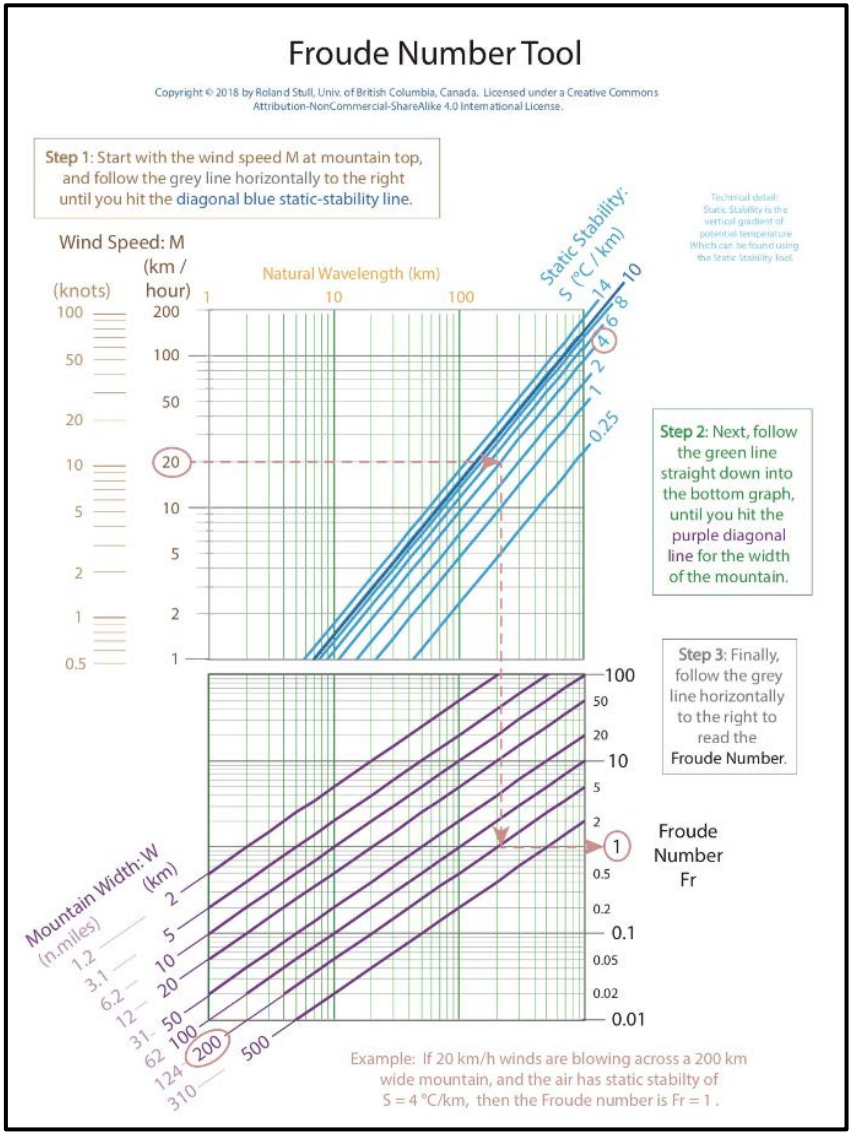


Figure D-1. Density Altitude Computation Chart

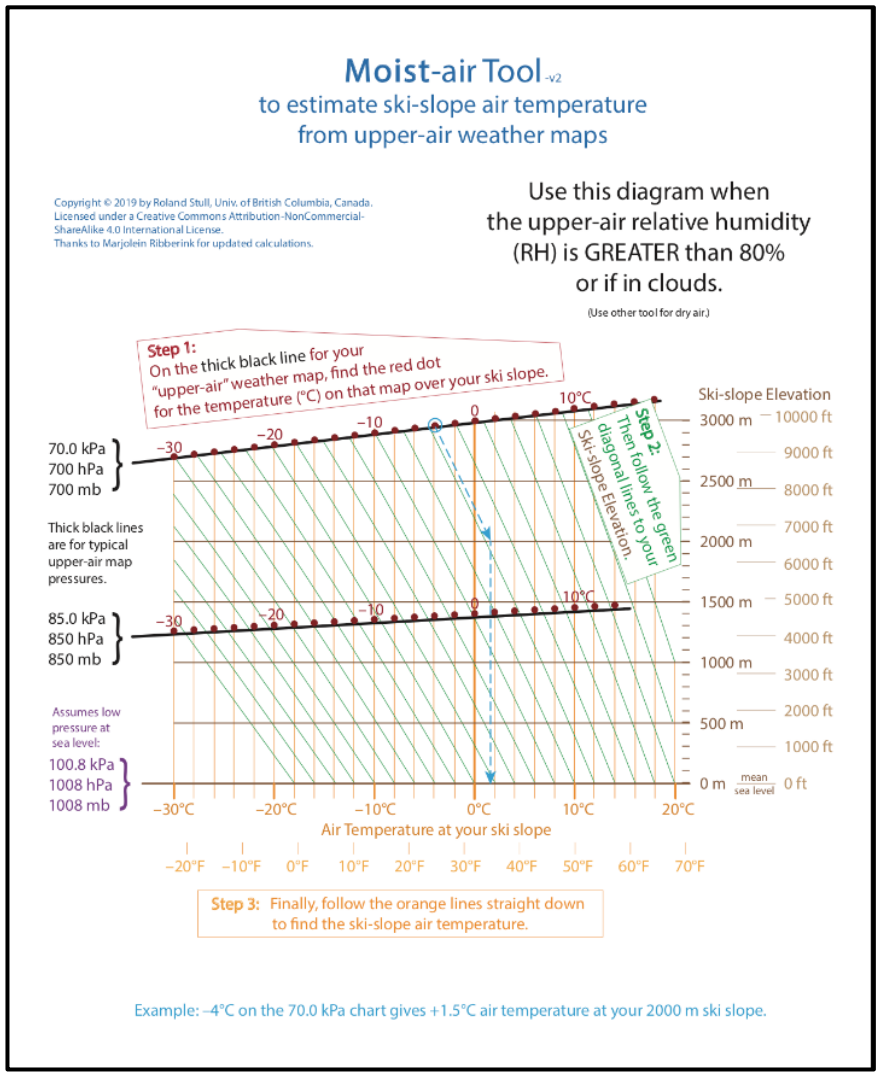
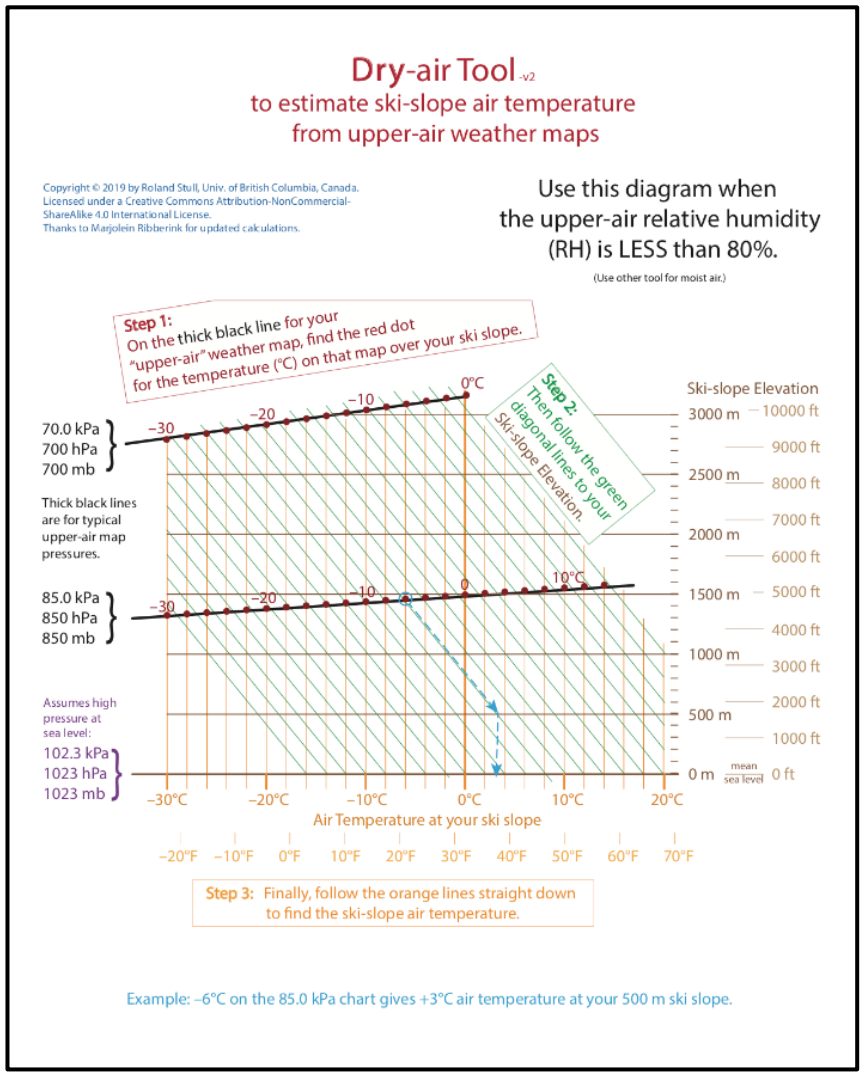
Static Stability Tool



Froude Number Tool



Moist air graphical tool



Dry air graphical tool