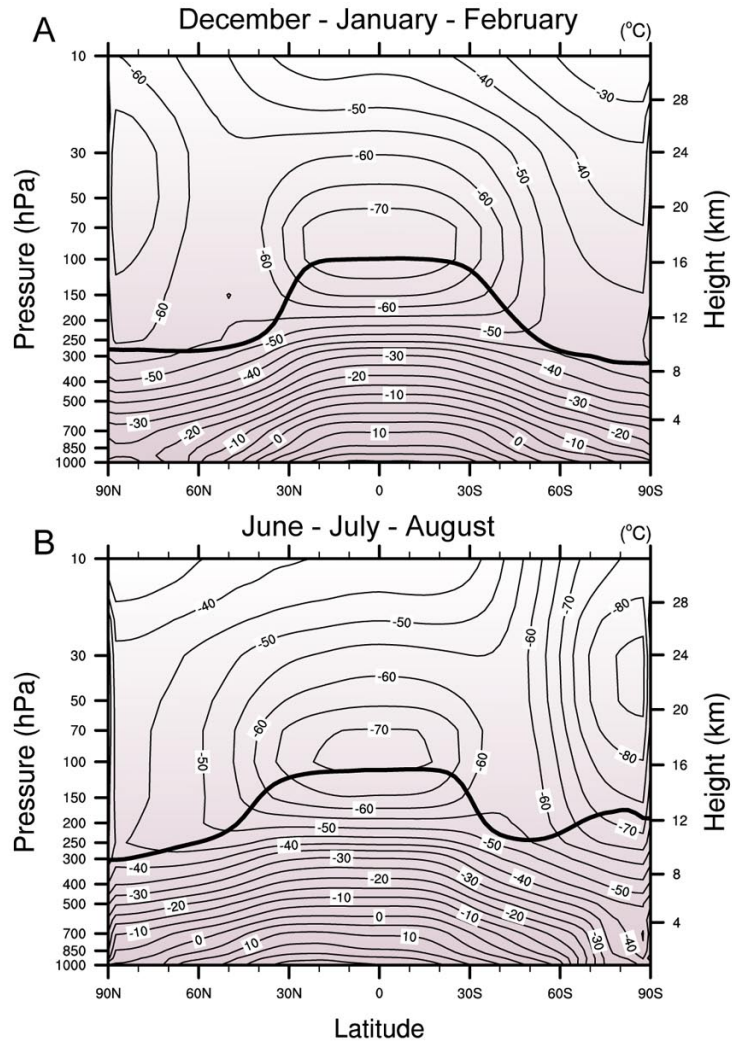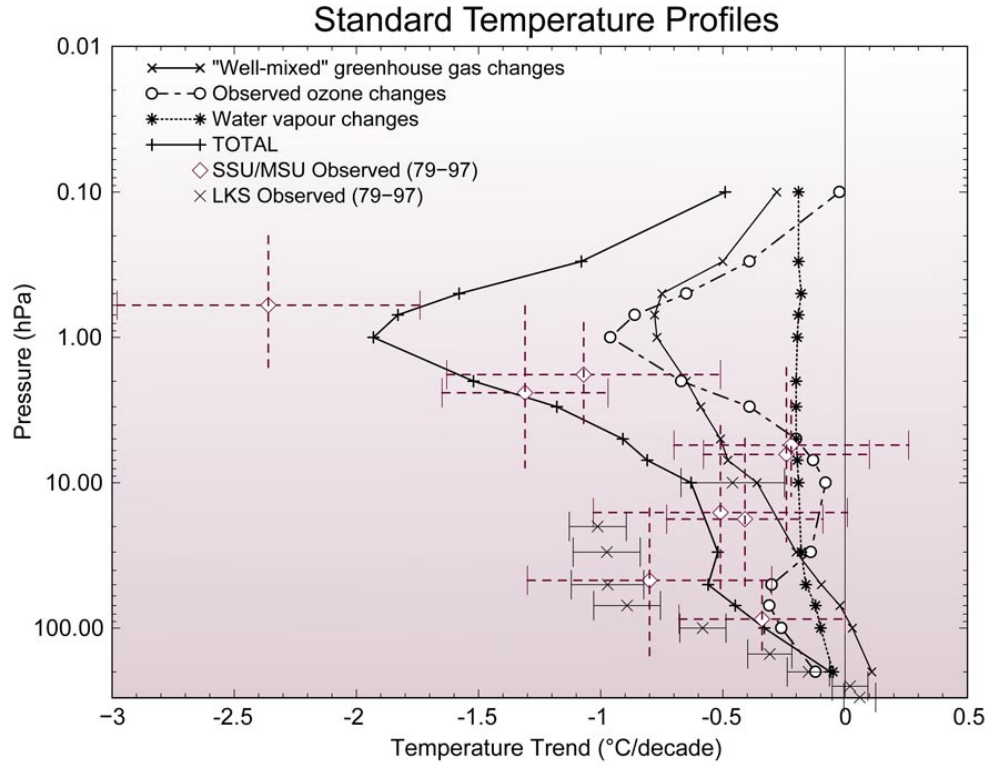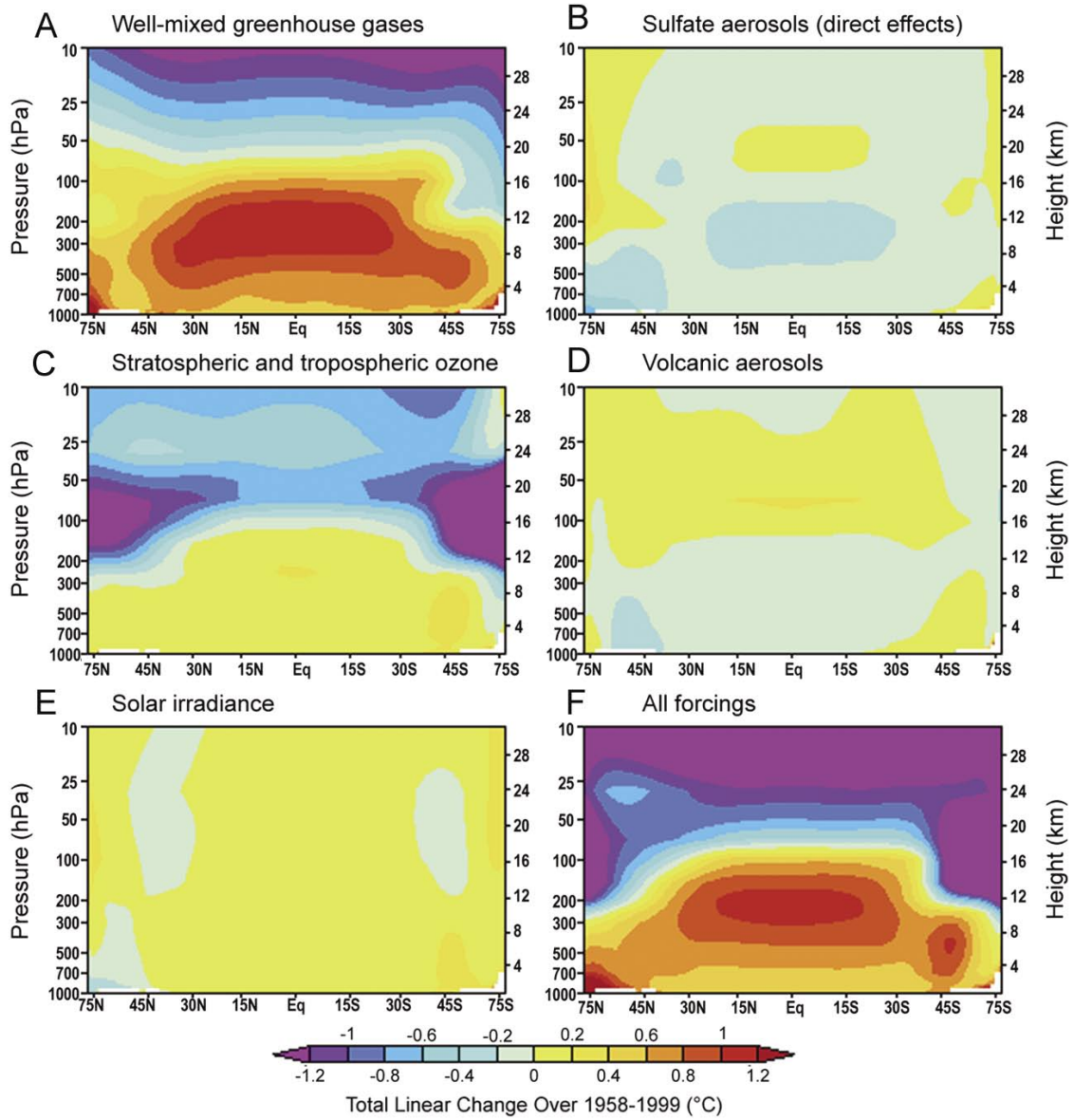# Chapter 1 Figures
for
Public Review

CHAPTER 1

Figure 1.1. Global climatological vertical temperature profiles from surface to troposphere and extending into the stratosphere for December-January-February and June-July-August mean conditions, as obtained from the National Centers for Environmental Prediction reanalyses (Kalnay et al., 1996; updated). The solid line denotes the tropopause which separates the stratosphere from the surface-troposphere system.
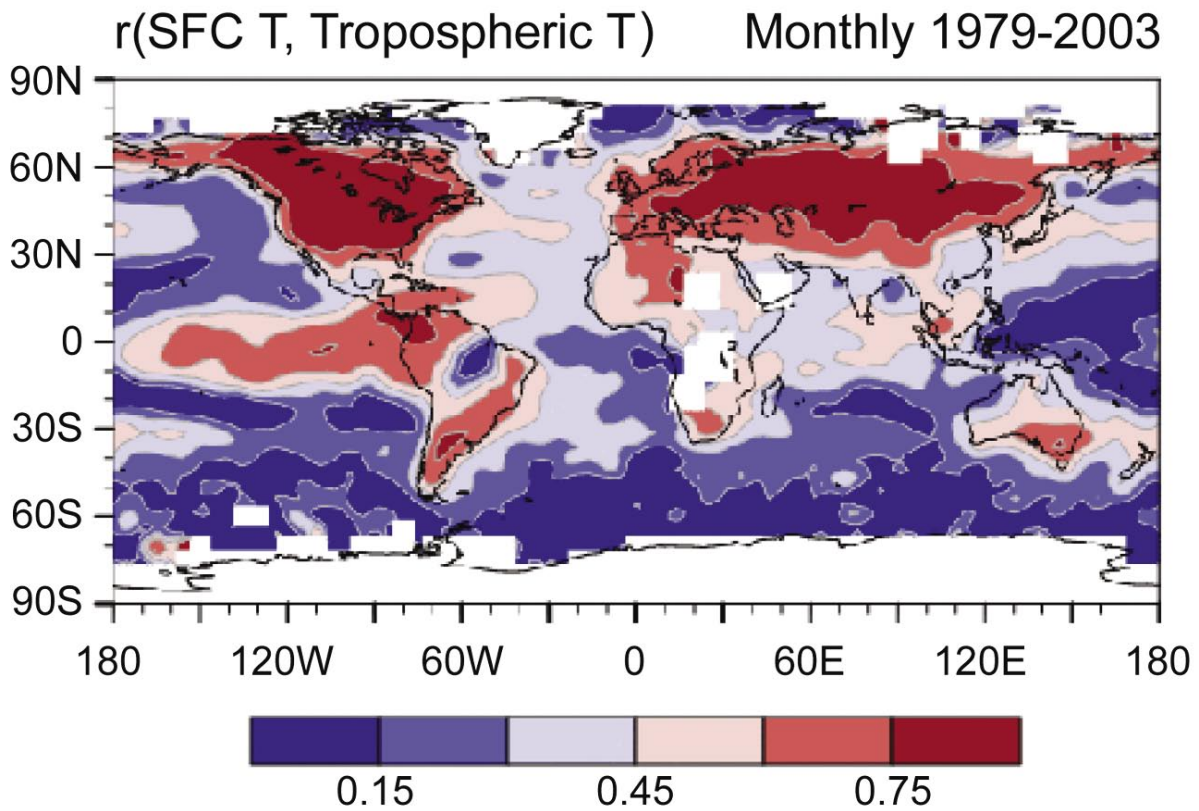
Standard Temperature Profiles

Figure 1.2. Global- and annual-mean temperature change over the 1979-1997 period in the stratosphere. Observations: LKS (radiosonde), SSU and MSU (satellite) data.
Vertical bars on satellite data indicate the approximate span in altitude from where the signals originate, while the horizontal bars are a measure of the uncertainty in the trend. Computed: effects due to increases in well-mixed gases, water vapor, and ozone depletion, and the total effect (Shine et al., 2003).
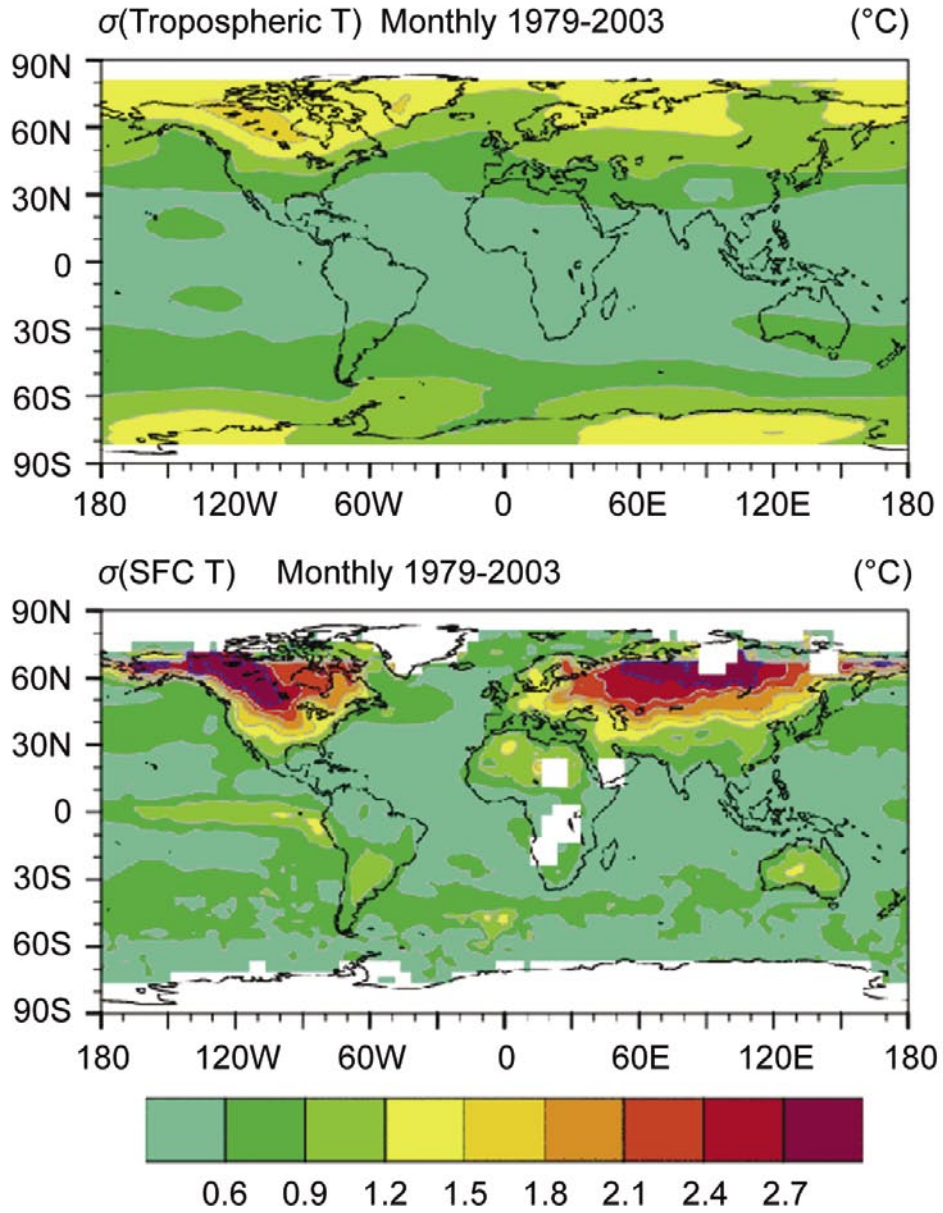
Figure 1.3. PCM simulations of the vertical profile of temperature change due to various forcings, and the effect due to all forcings taken together (after Santer et al., 2000).

Figure 1.4. Gridpoint correlation coefficients between monthly surface and tropospheric temperature anomalies over 1979-2003. The tropospheric temperatures are derived from MSU satellite data (Christy et al., 2003).

Figure 1.5. Standard deviations of monthly mean temperature anomalies from the surface and tropospheric temperature records over 1979-2003. The tropospheric temperatures are derived from MSU satellite data (Christy et al., 2003).