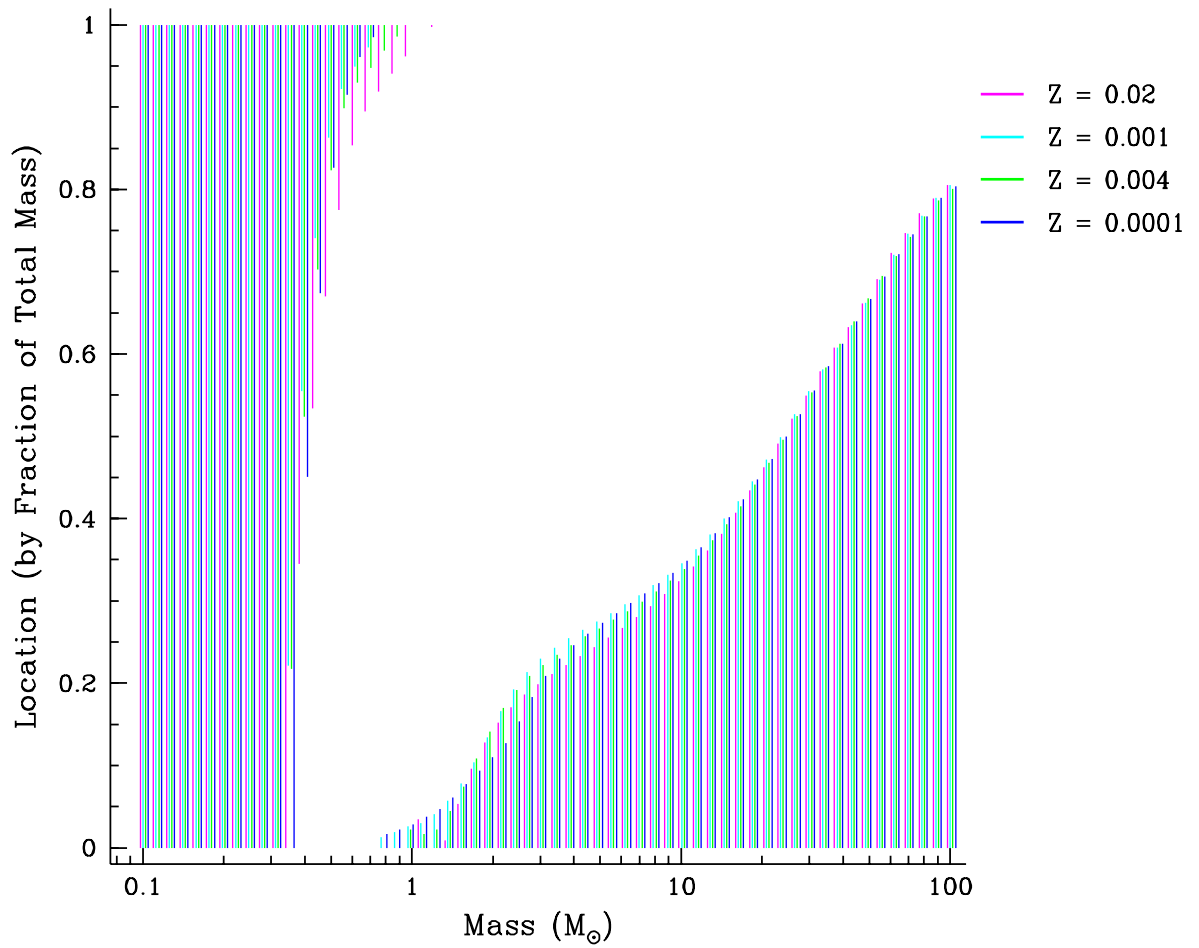
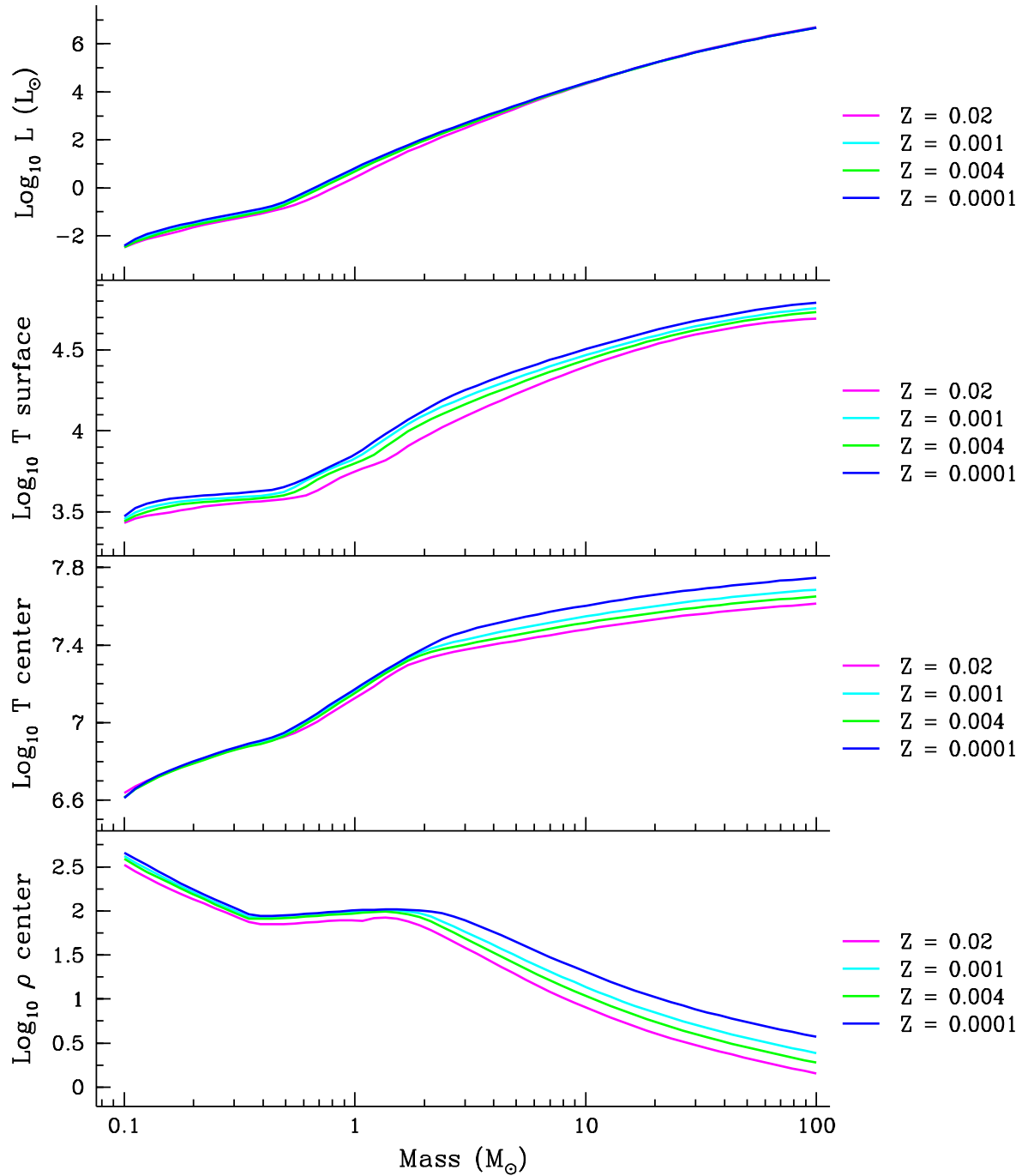


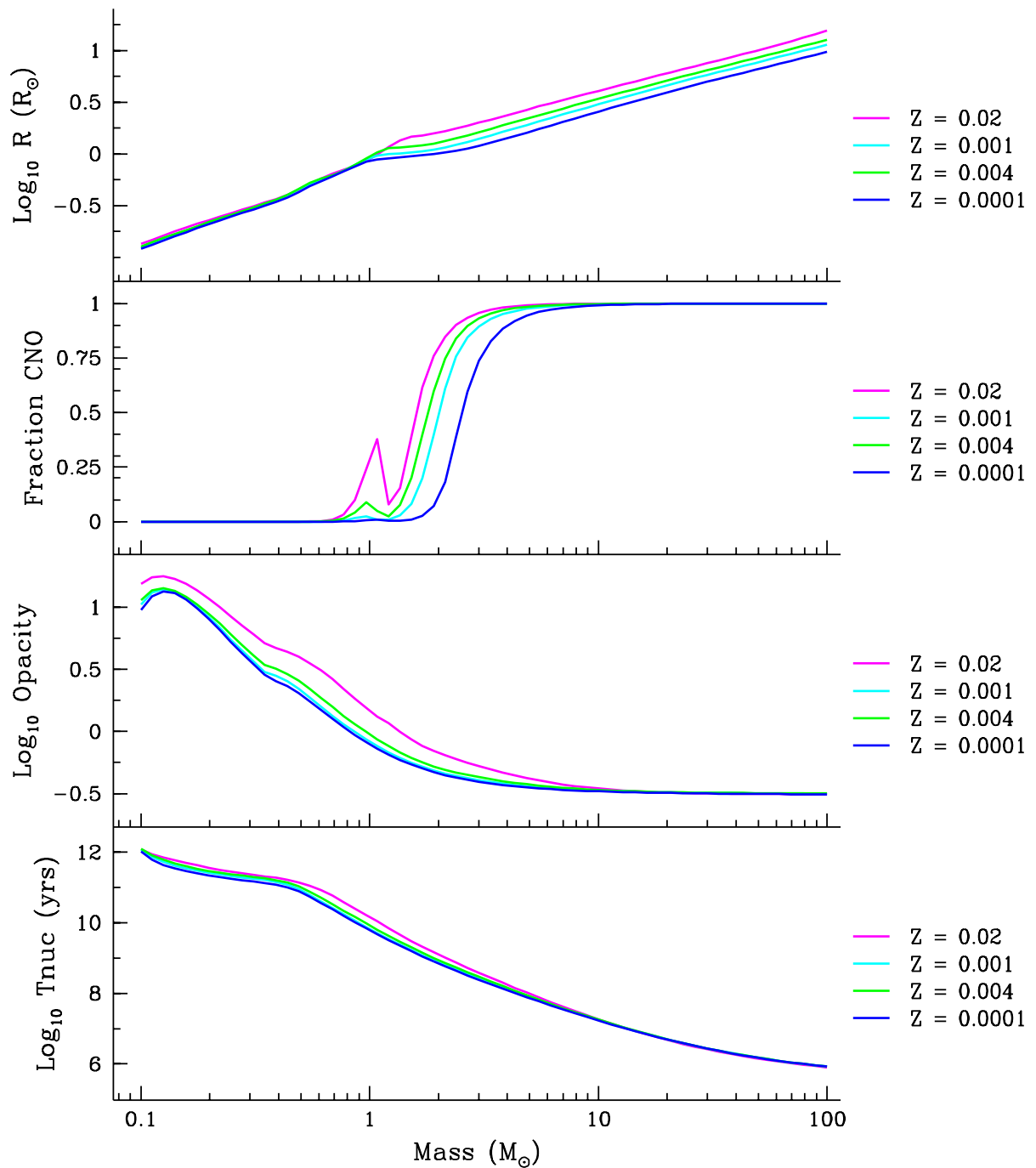
ZAMS Hertzsprung-Russell and Temperature-Density Plots. Numbers show mass in solar units.



ZAMS Main Convection Zone. Notice the transition from fully convective below  $\sim 0.3 M_{\odot}$ , to outer convective, and then to inner convective over  $\sim 1 M_{\odot}$ .



ZAMS Luminosity, Surface Temperature, Center Temperature, and Center Density.



ZAMS Radius, Center Energy from CNO, Opacity, Nuclear Timescale. The bump in the fraction of hydrogen burning energy coming from CNO is caused by a spike in the CNO rate that occurs at  $\sim 1M_{\odot}$  on the ZAMS for higher metallicities. After some time on the main sequence ( $\sim 10^8$  years), the CNO rate in these stars has dropped and the bump vanishes.