

Figure 14. Profiles of the viscosity coefficient at days 1–6 for the $N_o/10$ interacting boundary layer simulations.

specifically in the *Kantha and Clayson* [1994] modifications to the M-Y scheme to enhance mixing in similar situations. Figure 15 displays time-depth contour plots along with profiles at day 4 of the ρ and u component

velocity fields for simulations with initial stratification of $N_o/50$. The simulation with KPP develops a well mixed water column approximately a day and a half earlier than the Mellor-Yamada parameterization does. This impacts

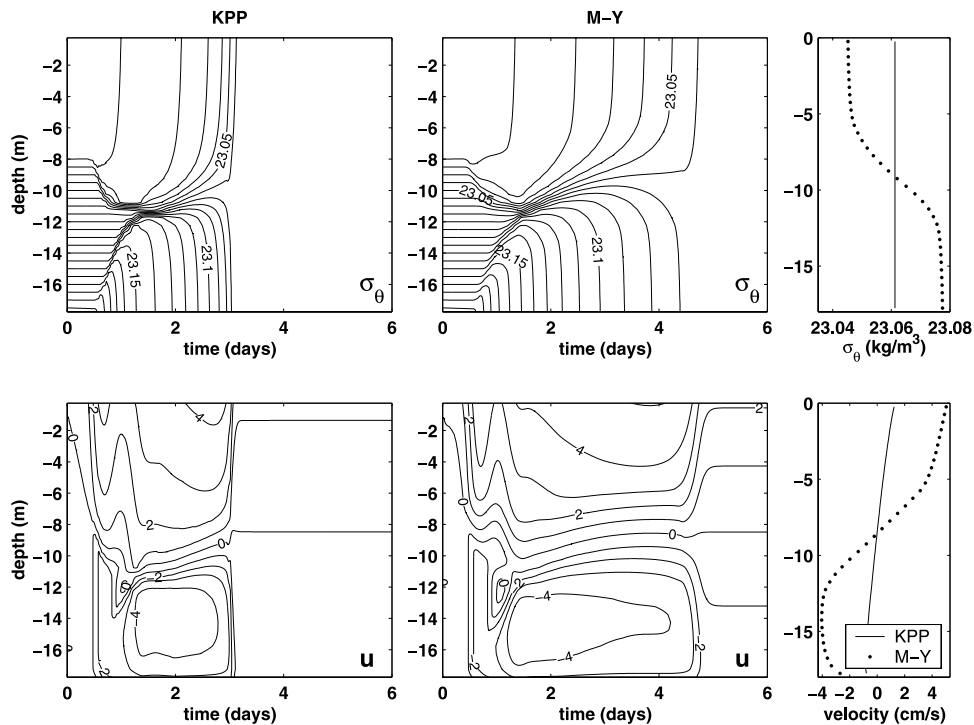


Figure 15. Time-depth contour plots of potential density anomaly and u velocity component in a 17 m deep water column along with profiles at day 4.