Figure 2. Vertical profiles of means (panels a.-c.), mean errors (biases) (panels d.-f.), and root mean squared errors (panels g.-i.) of various thermodynamic quantities. Observations are also included in the mean profiles. Note that panels a. and b. are reproduced from Fig. 1a,c.

Consistent between model configurations, their magnitudes do change on the order of a few tenths of g/kg. The dry bias below 2.5 km, a cold bias that is only slightly changed (on the order of a tenth of a Kelvin) in PM-O. In observations, the profiles of $\theta$ predictions of thermodynamic quantities also change when the prognostic atmospheric state and therefore modulate thermodynamic profiles ($T$ and $h$). It is revealed in Fig. 4 how the formulation is introduced. Figure 4a displays

$U_h$ and their fluxes.