



1 Figure 10. E-W vertical cross sections, through cell A1, of model-simulated (a) wind vectors
2 on the section plane (m s^{-1} , reference vector at bottom), and horizontal wind speed (m s^{-1} ,
3 isotachs, every 2 m s^{-1}) and convergence/divergence (10^{-4} s^{-1} , color, scale at bottom, positive
4 for convergence) along 22.5°N from 118.5 to 120.5°E (about 200 km in length), and (b)
5 vertical velocity (m s^{-1} , contours, at ± 1 , ± 2 , ± 5 , ± 10 , and $\pm 15 \text{ m s}^{-1}$, dotted for downward
6 motion), temperature ($^\circ\text{C}$, dashed cyan isotherms, every 2°C), and mixing ratio of total
7 precipitation (g kg^{-1} , color, scale at bottom), along 22.52°N from 119.62 to 119.8°E (about 18
8 km in length) at $06:30 \text{ UTC}$ 8 August 2009 . The thick arrow-line in (a) marks the axis of LLJ
9 in the background flow.