



1 **Figure 14.** E-W vertical cross sections, through cell A1, of model-simulated w (m s^{-1} , color,
 2 scale at bottom) and (a) wind vectors on the section plane (m s^{-1} , reference vector at bottom),
 3 and u -wind speed (m s^{-1} , isotachs, every 2 m s^{-1}) and (b) vertical wind shear (10^{-3} s^{-1} , purple
 4 vectors, reference vector at bottom) and -1 times the x -component of shearing term in Eq. (13)
 5 ($10^{-6} \text{ Pa m}^{-2}$, every $25 \times 10^{-6} \text{ Pa m}^{-2}$, dashed for negative values) along 22.52°N from 119.62
 6 to 119.8°E (about 18 km in length) at **06:30 UTC 8 August 2009**. The **thick (dashed) arrow**
 7 **lines in (a) and (b) mark the axis of LLJ.**