Backtrajectories ending at 2.0 km (black) and 2.2 km (blue) amsl just above the Maïdo observatory at 0730 LT, calculated from the wind field at 500-m resolution of simulation RUN02 (see the article for details). The trajectory timestep is 15 min. (a) Trajectories in horizontal projection, as well as the model wind vectors at 0730 LT, at 2.2 km amsl. The $x$ and $y$ axes represent the distance (in km) from the bottom left corner of the model domain. The colourscale represent the terrain elevation (in m). (b) Trajectories in vertical projection on a west-east plane (same $x$-axis as in the left panels; $z$-axis in km amsl). The terrain profile at the latitude of Maïdo is represented in brown.