Fig 1. Initial configuration of the model domain that contains a cold reservoir (dark gray transition shading), a region with south-southeasterly winds (light gray shading with surface wind vector), and the general vertical profile of the west/east winds present over the entire domain (see text for specific details).
Fig. 2. Plan view of contoured surface vertical vorticity at the outflow leading edge for the series of CAPE experiments and BASE at 1860 s. Contours are 0.05, 0.10, 0.20, 0.30 and 0.40 s\(^{-1}\).
Fig. 3. Time series of the maximum surface pressure deficit for the evolution of NST B in BASE and its counterpart circulations in the CAPE parameter experiments (excluding CAPE0).
Fig. 4. Time series of the maximum surface across-vortex differential velocity for the evolution of NST B in BASE and its counterpart circulations in the CAPE parameter experiments (excluding CAPE0).